In the name of Allah, the Most Gracious, the Most Merciful



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1/0-4002 00 no no

 $\frac{H0}{n_1} = \frac{H0'}{n_2} \rightarrow n_1 = \frac{H0}{H0'} \cdot n_2$

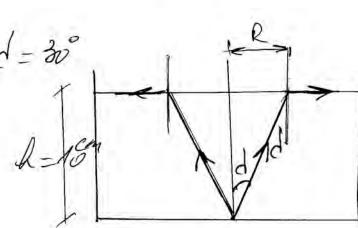
n1 - 10 24 -0 21=4,8

2/ tgd= = = = R tgd

Aud = 20 Aud = 1 ->d = 30°

R= 10 x + 300

R = 5,47 cm



3/1=900-> 0=0

Aud=1 -> d=41,8°

A=++- -> == A-0 == 18,20

h Air = 20 Air 160

Anglo = 1 Ann

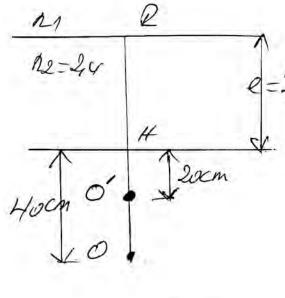
A7760 = 115 A1182 10=27,9

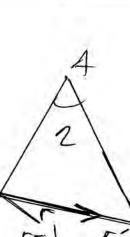
ou bien directement puissur = 90° donc

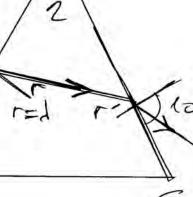
20 Sinco = 2 Acu (A-d)

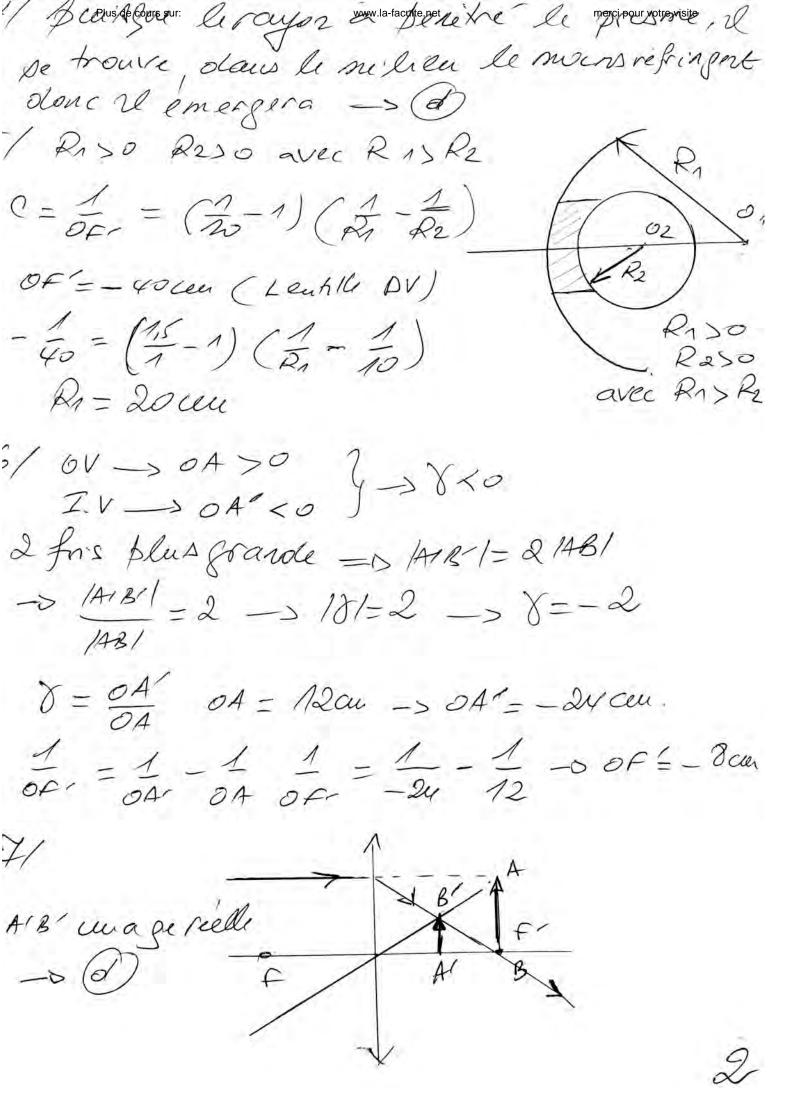
Auto = 7 Su (A-d)

6=41,9° Alu Lo = 15 Scu (60 facadm 16/0 gmail com

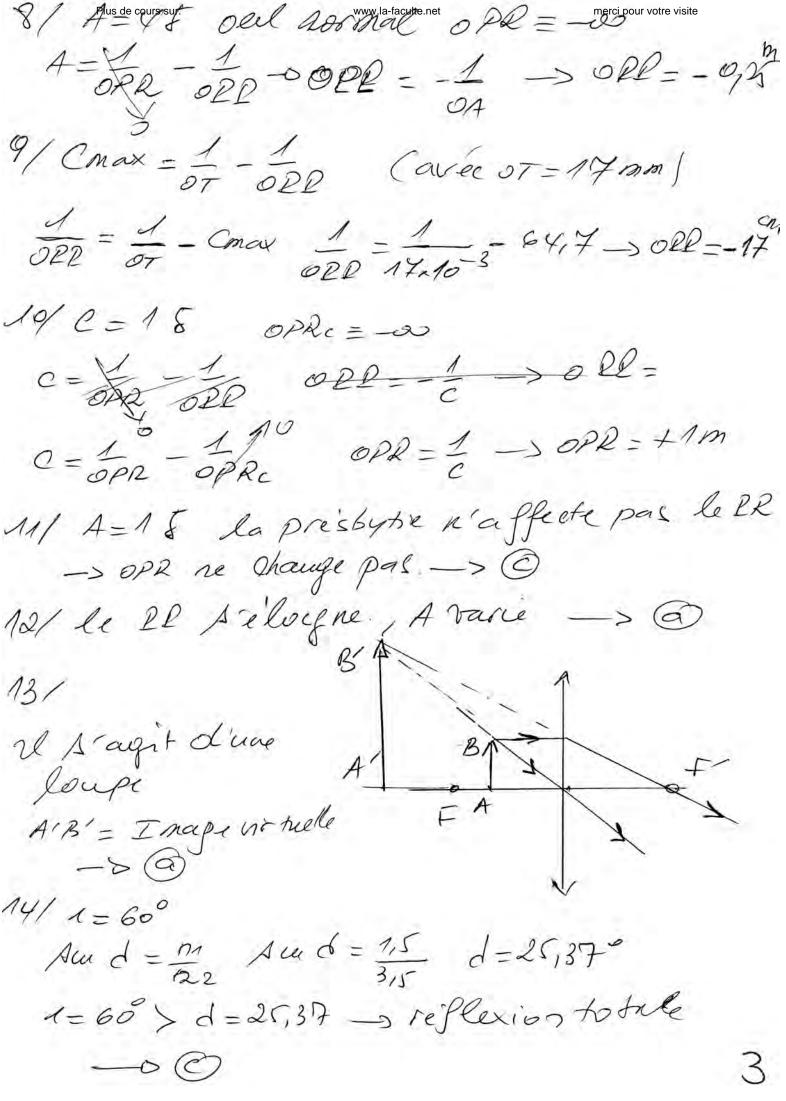




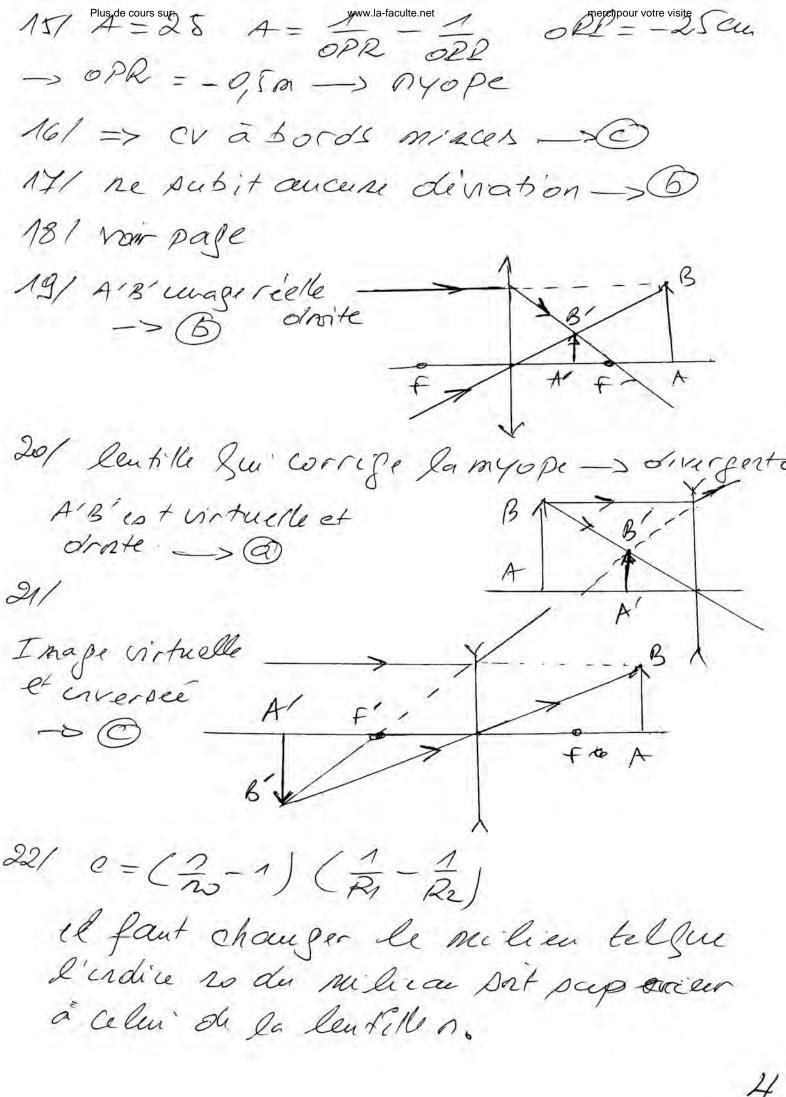




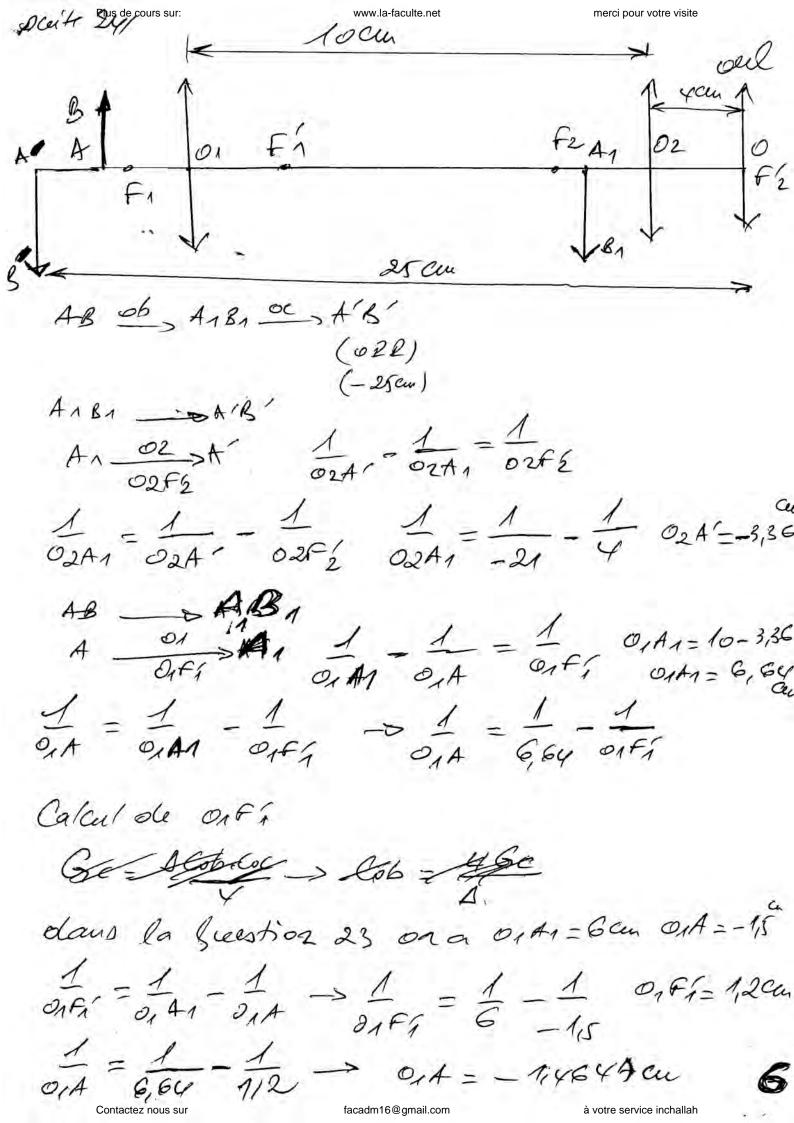
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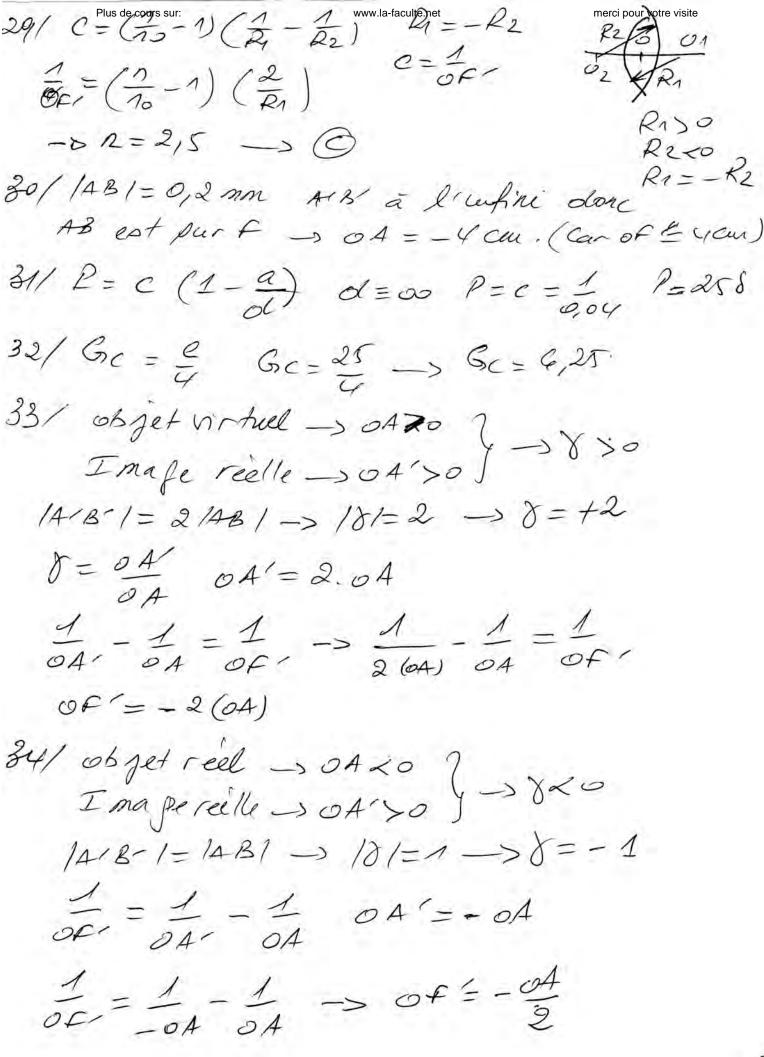
Contactez nous sur

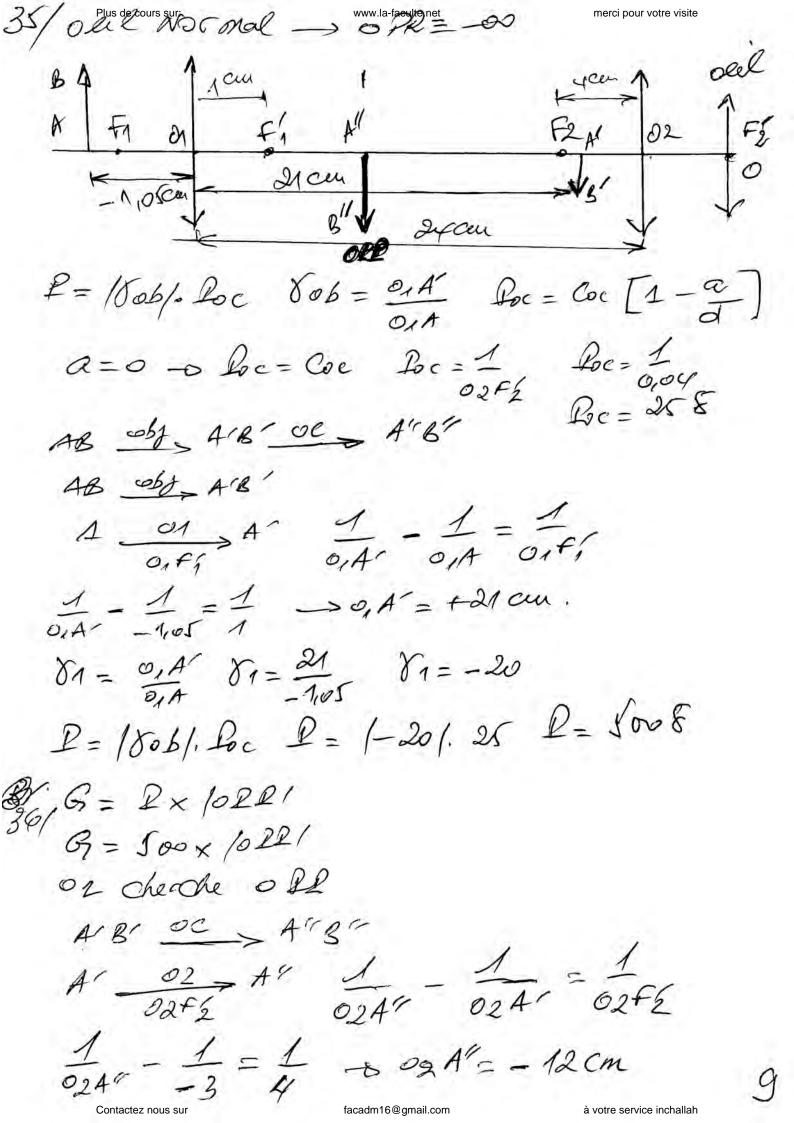


13/ Olil emonétrope op2 = -25 cm 01A =-18CU oeil put fé -> a=0 A'B" a l'enfin day accommodation -> $02F_{2}=4$ Cm . $G_{c}=120$ 14181 =4/AB1 - 1/4181 = 4 -> 1811=4 pour le microscope -> 81=-4 BA f_{Λ} On f_{Λ} f_{2} O2 f_{2} All f_{3} AB Obg $A \circ D \circ C$ AB obj SAIBI oc > A'B' 4cm Comme A'B'està l'infinizolone 41B1 ist Aur f2 AB - 3418 A - 01 A1 \ \(\text{S1} = \frac{0_1 A_1}{0_1 A} - \text{O}_1 A_1 = \(\text{S1} \cdot \text{Q1} A_1 \) 01A1= (-4)(-15) -> 01A1=6 cm 0,02= 0,A1+ 102F21 0,02 = 6+4 -> 0,02 = 10 cm. 94/ ouil accommode au maximum, donc l'unagre 1'8' est au Pl à 25 ceu 25 Contacted nous stir Apple Apple gmail.com



25/ Plus de cours sur:
25/ 2= 6,4/p2 - 10,4/22 merci pour votre visite 2= 1-1,51-1-148431 L= 90353 Ceu 26/0PR=+1M A=48 $A = \frac{1}{opR} - \frac{1}{o2R}$ $\longrightarrow o2R = -33 \text{ cm}$ of one 33 cm avant de l'oul 27/ C= 1 OPR OPR OPR = -00 C=1 OPR OPRET C=18 C = 1 -1 -> OPPc = -25 cm champ correpe 7-20, -25 cm] e = 1 -1 -> 1 = 1 -c 1 - 0,98 -> 0,2Rc = -0,24 m 29/ AB réelle el AB réelle don les tille ev of que 1 = 1 -1 -00 0 A = -5 CM 8= 0A' 8= 24 8= -4 IAIB' 1= 18/1AB1 -6/A/B/1=8cen Contactez nous sur





34/
$$P = \frac{|\alpha|}{|AB|}$$
 $P = \frac{E}{|AB|}$ $P = \frac{E}{|AB|}$

or cherche la Alpe con la Position de l'objet tellus l'unge A"B" pout our RR

$$B \downarrow F_n \downarrow O1 \downarrow F_n$$

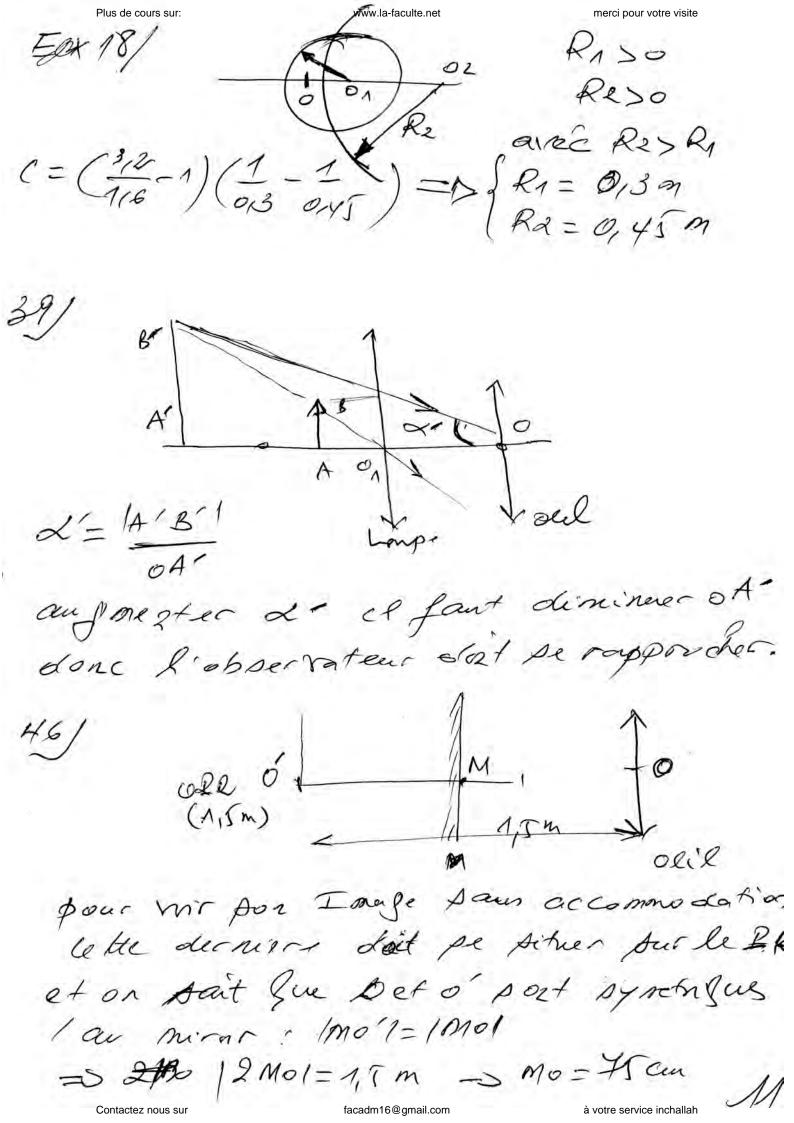
AB OBS A'B' OCS A'B"

$$A \xrightarrow{O1} A' \qquad 1 - 1 = 1$$

$$O1F1 \qquad O1A' \quad O1A \qquad O1F1$$

$$\frac{d}{o_{i}A} = \frac{d}{o_{i}A^{r}} - \frac{d}{o_{i}F_{i}} \longrightarrow \frac{d}{o_{i}A} = \frac{d}{2o} - \frac{1}{1} \quad o_{i}A = -1_{i}os_{i}$$

K

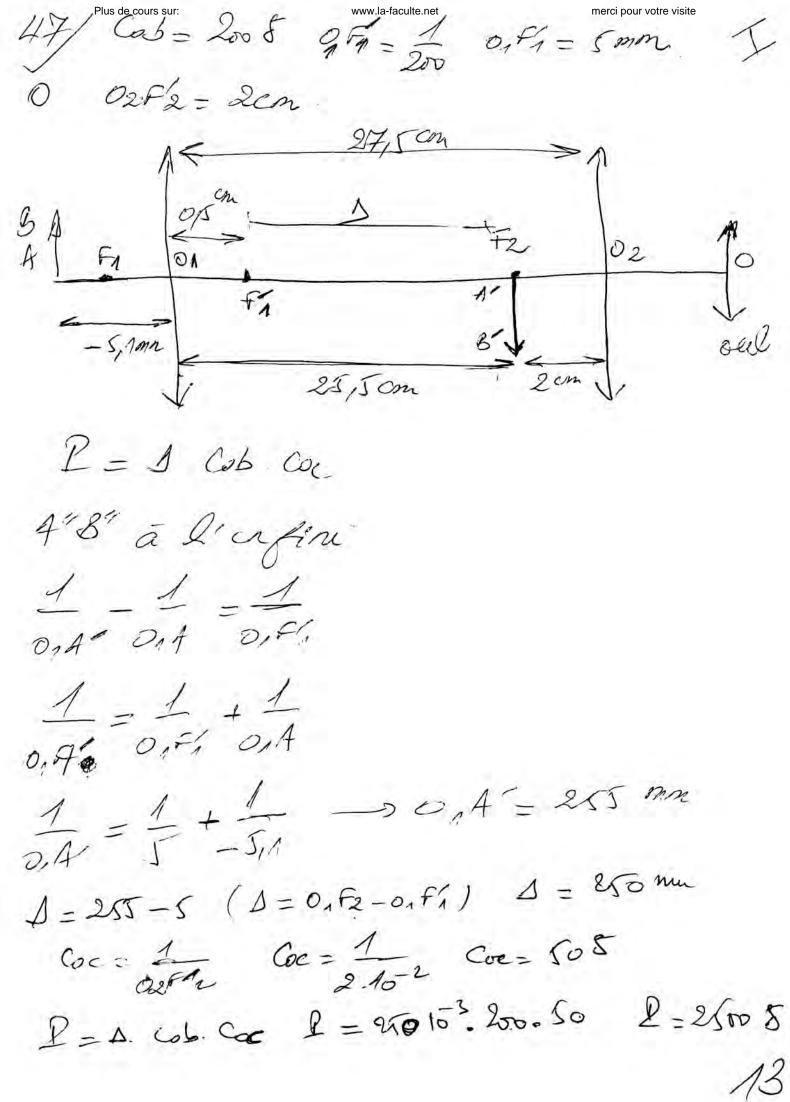


49/4 = cI1 - a www.la-tacquite.riet a = 0 I = 0donc la leurs aver not régale à C fuelle le m position de l'objet 41/JOPRe, 02R) = J-00, 20 cm] C=-2,5 C <0 -> Nyope 42/ C = 4 - 1 OPR = 1 C OPR = - Qxm. 43/C=1-1-51=C+1/0PR -> ORR = -0, 133 m $\frac{1}{o2P} = -2,5 + \frac{1}{-9,2}$ ou brin A = 1 - 1 OPRe OPRe 44/ 4 = 1 - 1 - 22 $A = \frac{1}{-94} - \frac{1}{-9,133}$ 4=58 $C = \left(\frac{9}{70} - 1\right) \left(\frac{1}{2}, -\frac{1}{2}\right)$ $-6 R_1 = 162mm$ R2 Cornce Raso D2=15mm. 1/2

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1 = 1 -1 -0 0, A = -0, 50 99 21 5, A 25,7 0,5

49/ Accommodation max. G= 2/0221

806 = 0,A 866 = 25,7 -0,5099 D= 1006/2 Foc

Oob = - 50,4

Loc = Coc [1 - a] a=0 Pac = Coe = 508

P=/-10,4/x To -0 = 2520 8

9 = 2520 × 10,21 G = 504.

J. 0/ Gc = A. Cob. Coe/4

Gc = 0,25 x200 x50 -> Gc = 2500

Y GC = 625

J1/ P = 2 -> /AB/one = E /AB/one

ABlace = 3104 1 ABlace = 1,19 10 m

$$32/\frac{1}{0} \frac{1}{0} \frac{1}{0} \frac{1}{0} = -\infty$$

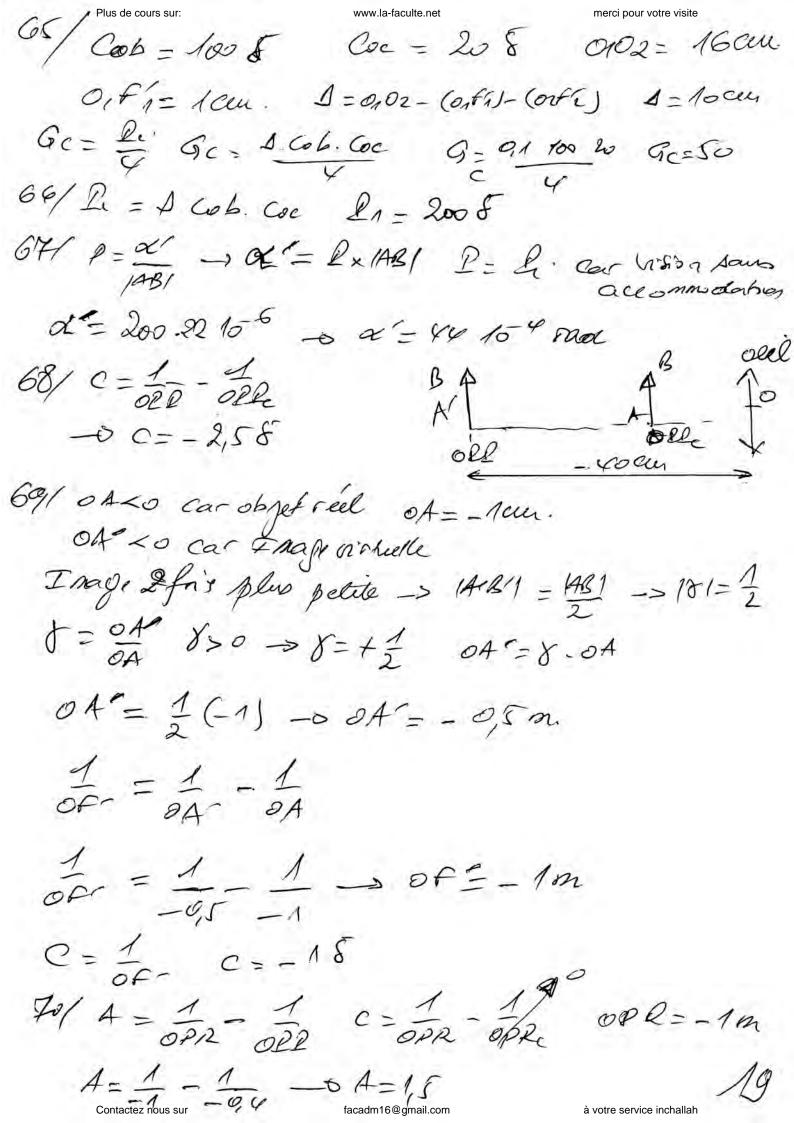
$$4 = \frac{1}{0} - \frac{1}{0} \frac{1}{0} + \frac{1}{0} - \frac{1}{0} \frac{1}{0} + \frac{1}{0} \frac{1}{0} = -\frac{1}{0} \frac{1}{0} \frac{1}{0}$$

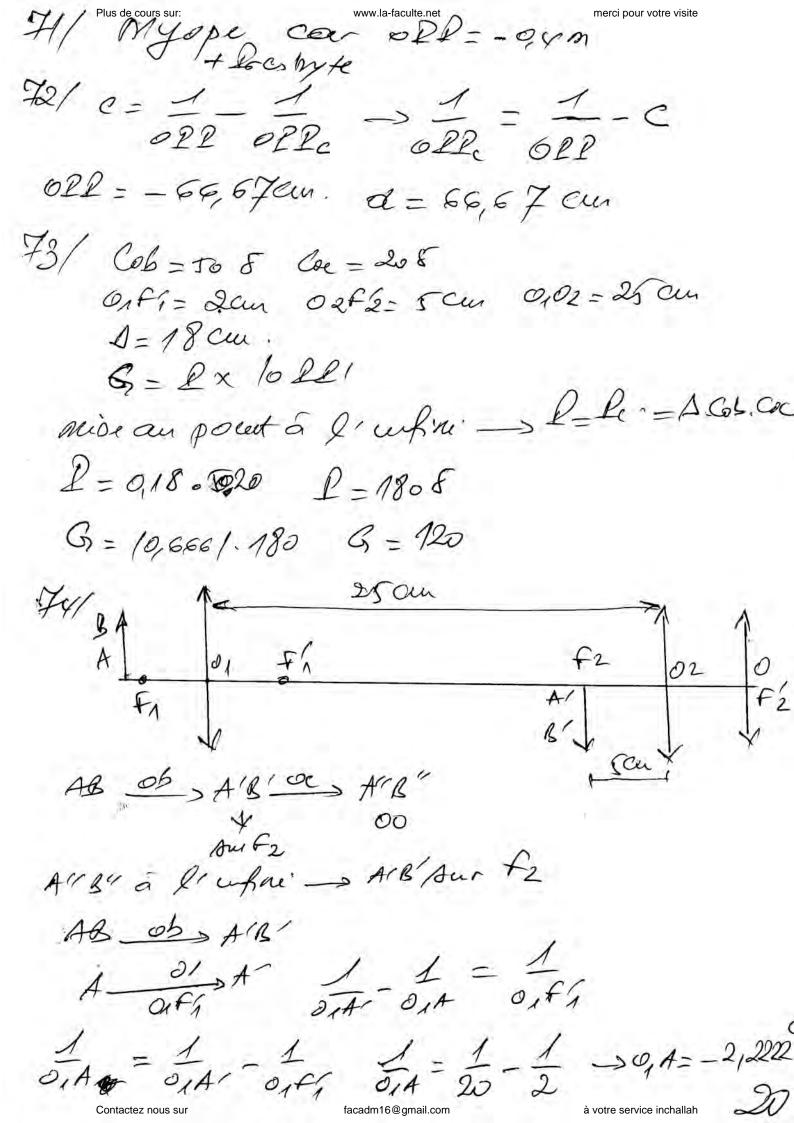
$$4 = \frac{1}{0} - \frac{1}{0} \frac{1}{0} \frac{1}{0} + \frac{1}{0} \frac{1}{0} - \frac{1}{0} \frac{1}{0} \frac{1}{0}$$

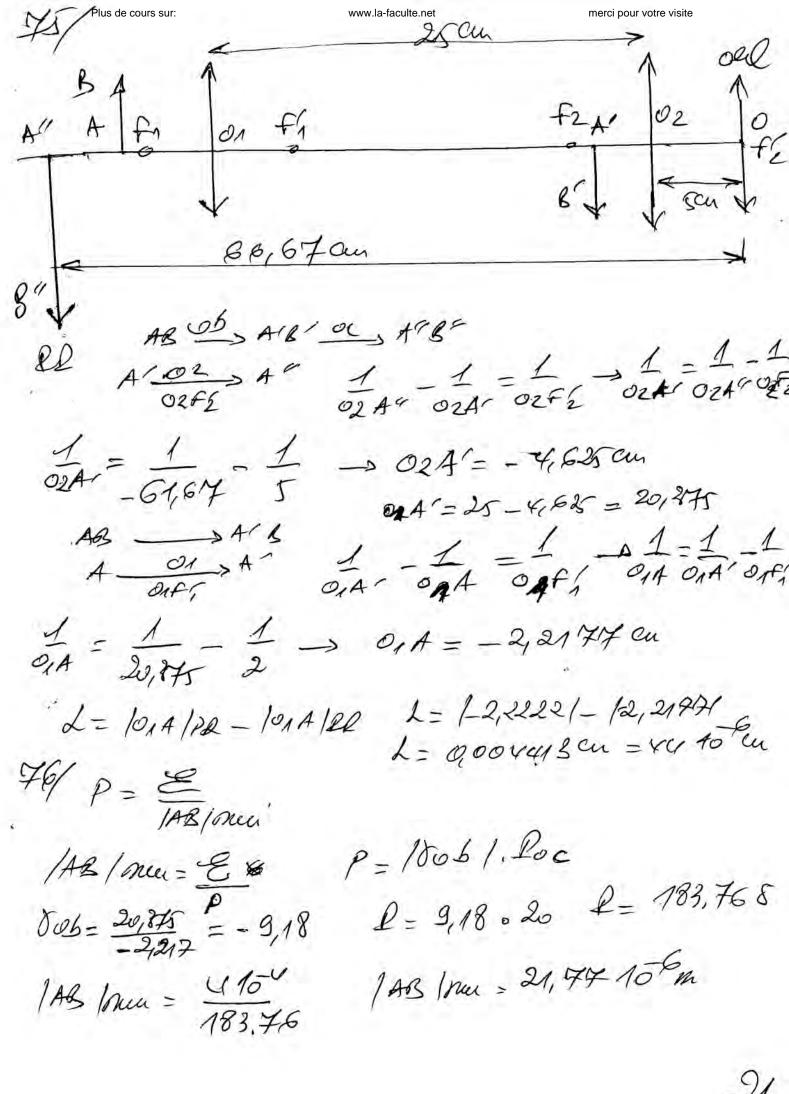
$$33/\frac{1}{0} \frac{1}{0} \frac{1}{0} \frac{1}{0} = \frac{1}{0} \frac{1}{0} \frac{1}{0} \frac{1}{0} = \frac{1}{0} \frac{1}{0} \frac{1}{0} = \frac{1}{0} \frac{1}{0} \frac{1}{0} = \frac{1}{0} \frac{1}{0} \frac{1}{0} \frac{1}{0} = \frac{1}{0} \frac{1}{0} \frac{1}{0} = \frac{1}{0} \frac{1}{0} \frac{1}{0} = \frac{1}{0} \frac{1}{0} \frac{1}{0} = \frac{1}{0} \frac{$$

16

(-0,184) -> 0 2Rc = - 20/cm. ole ful f RASO Reso 02 ower Res G o R2 = ycle 02R = - 15 cm avec $P = C(1 - \frac{a}{61})$ P = C = 22,58(=(2-1)(2-2) $\frac{2}{Q_1} = \frac{c}{\left(\frac{2}{2} - 1\right)} + \frac{1}{Q_2} - \frac{c}{2}$ D R1=0,02m Di= 2cn. 19) N = (0151)2 [= 1 = 022+a. O1F' = 1 = 1 - 0, f'=0, 8 4 - 2,98 au à votre service inchallah facadm16@gmail.com







21

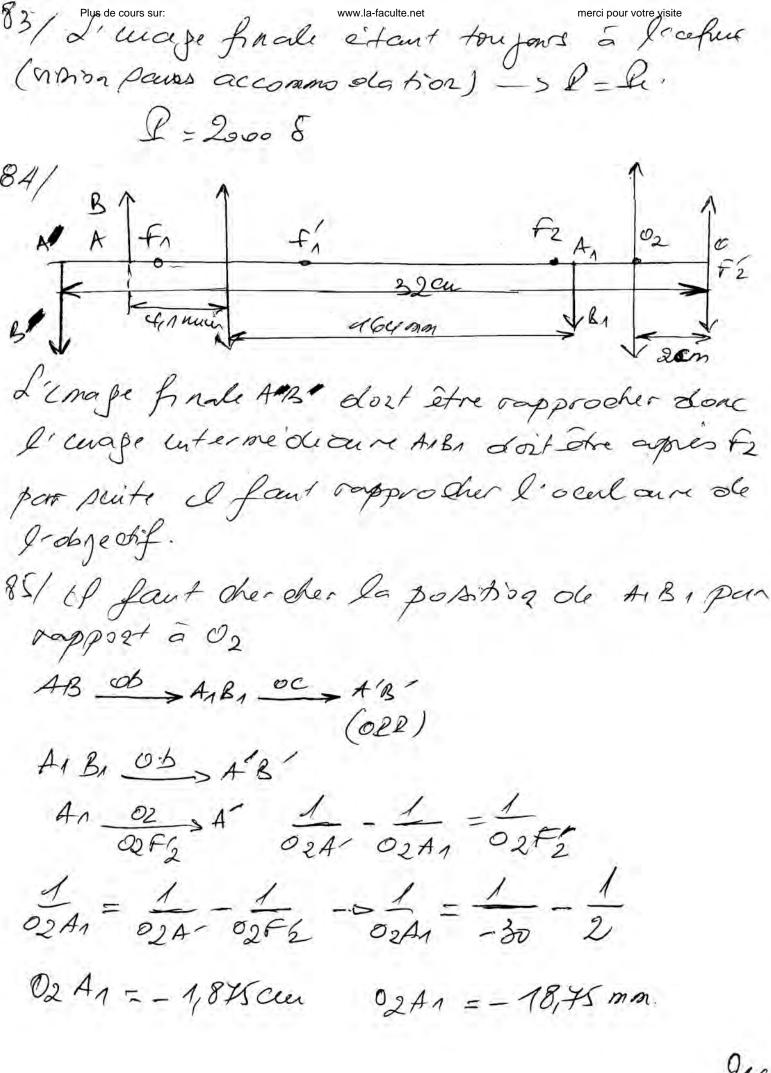
 $OPR_{C} = -\infty$ $\rightarrow A = -\frac{1}{oPl_{C}} \rightarrow oPl_{C} = -\frac{1}{4}$ -0 022c = -23,8 cm 78/ Com2 = 62,58 Cone2 = 1 - 1 -> 1 -> 1 - Comen. 79/ 4=1-1-0PR -> 1-1-A $\frac{1}{o22} = \frac{1}{-24/2} \frac{1}{10^{-2}} - 4/2 \longrightarrow 022 = -0,124 \text{ m}$ $80/C = \frac{1}{oP2} - \frac{1}{9PR} = C = \frac{1}{oPR} = C = -3,68$ 81/BAFA DA FÁ F_2 A' O_2 F_2' B'O1 F1 = 4 mm 02 +2 =? 0102 = 184 wein.

22 à votre service inchallah

Poc = 1 200 = 1 Poc 2500 Poc = 508

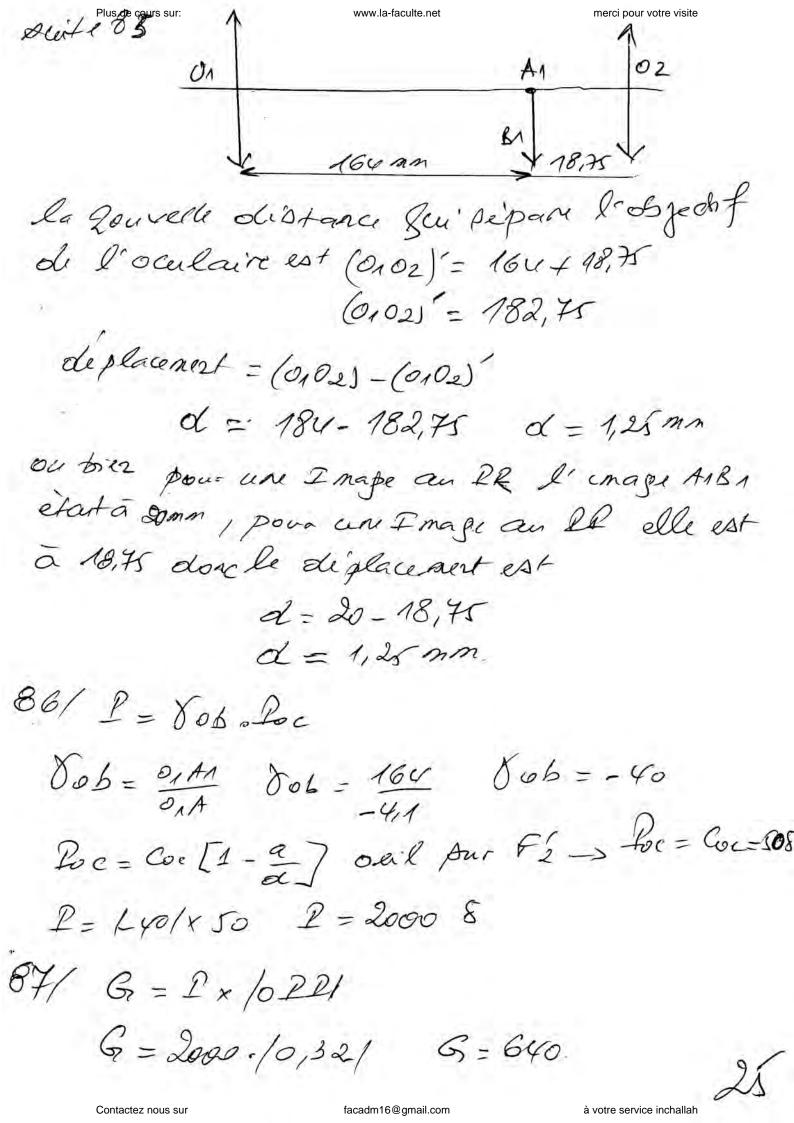
82/ hision saus accommodation + olil emmitmope danc l'unge finale A's' est à l'unsu. -> P= R= 1. Cob. Coc A=0102-014/2-0242

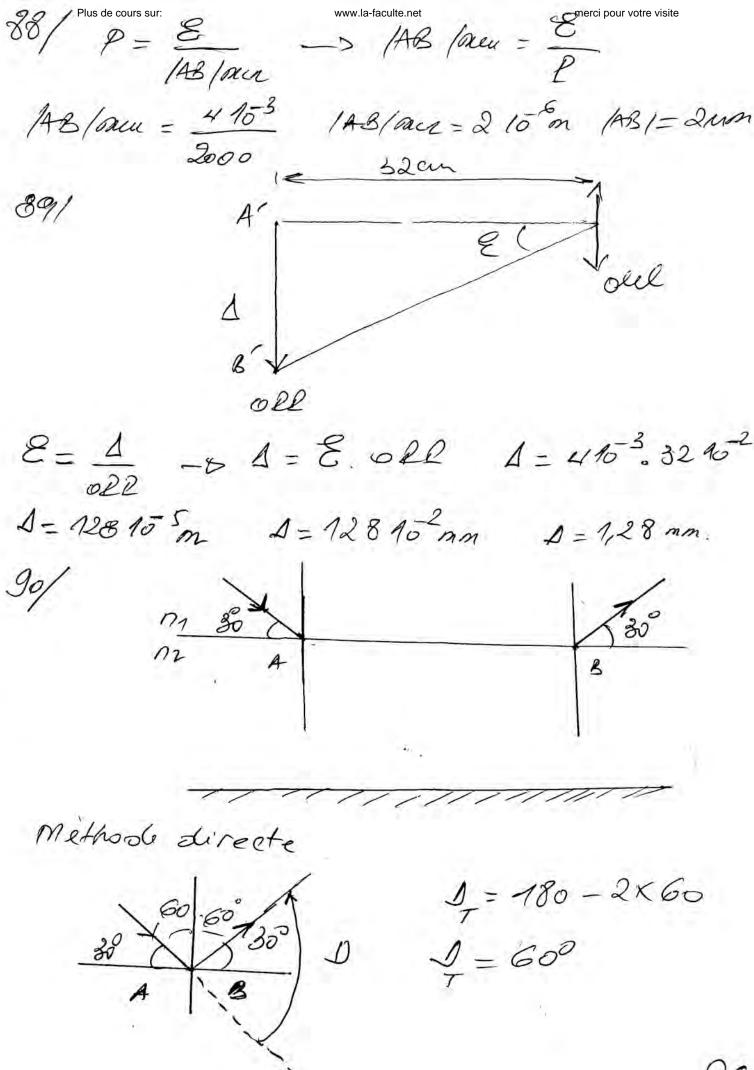
1 = 184 - 4-20 1 = 160 cm $P = 0.16 \times \frac{1}{0.000} \times \frac{1}{0.02} P = 20008$ Contactez nous sur



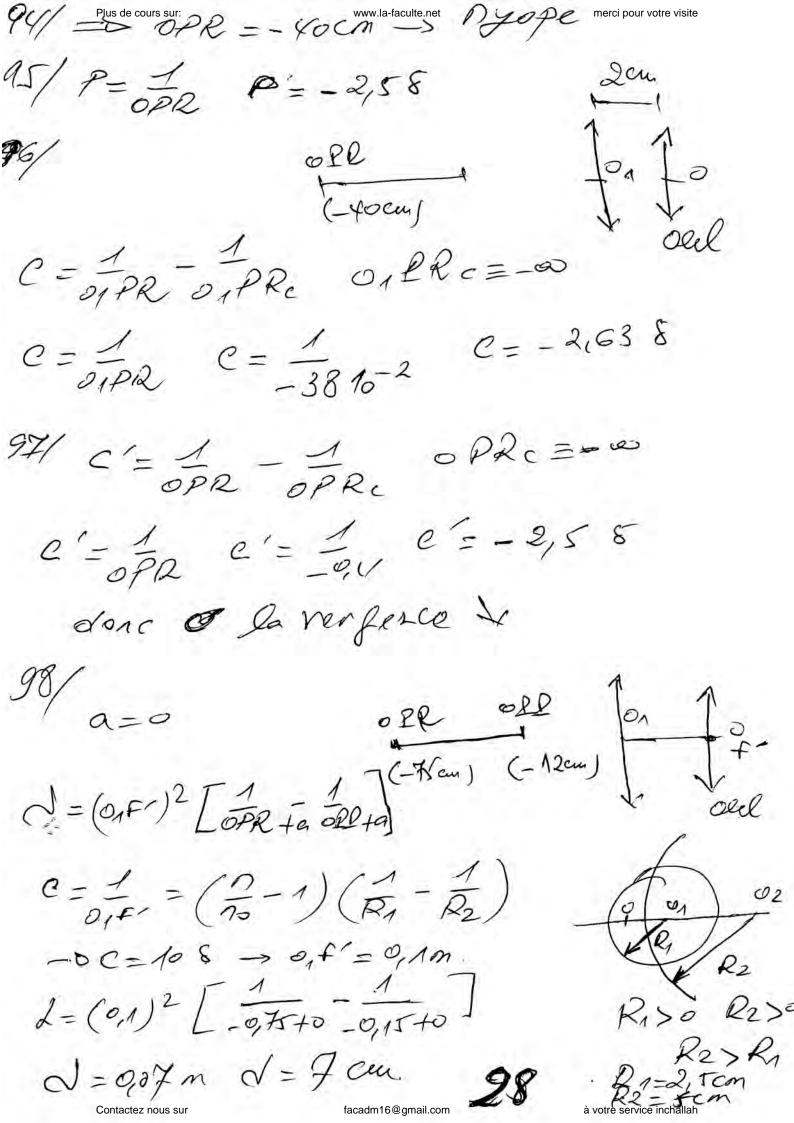
24

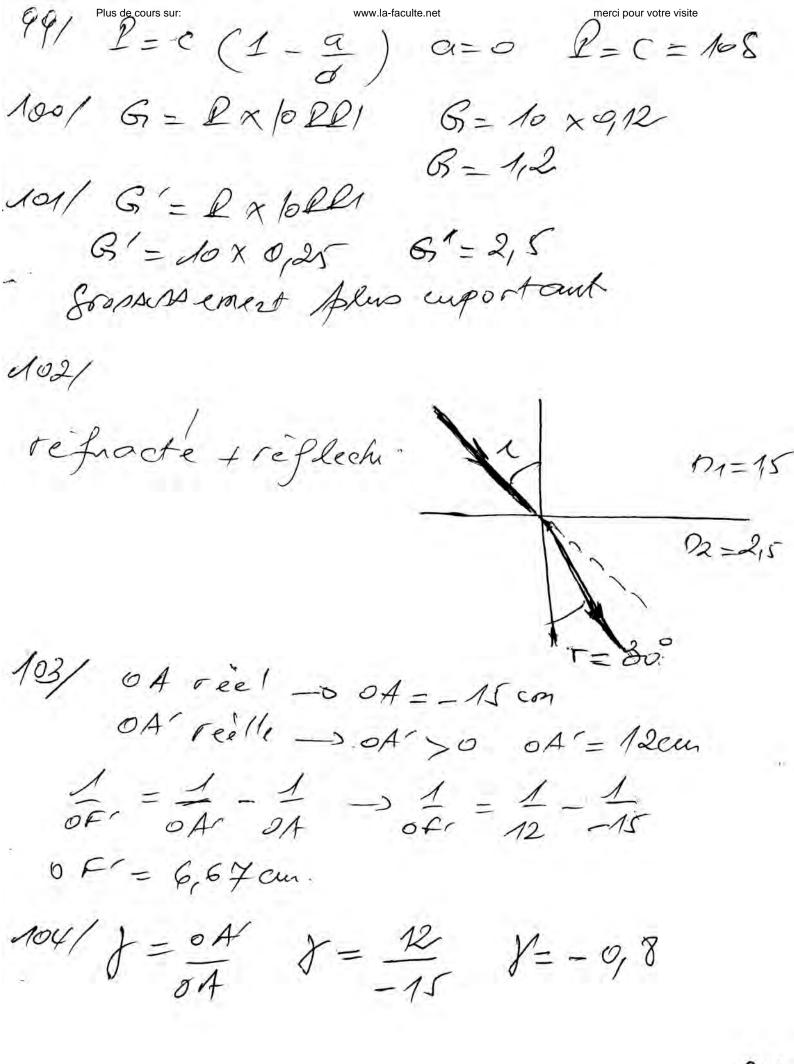
facadm16@gmail.com



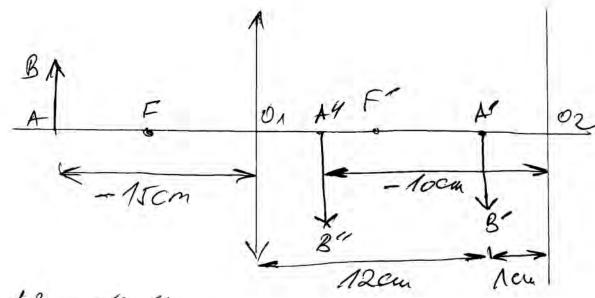


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29



NB 12 A"B" A"B" donte _> 8 >0

/A"3" 1 = 4cm.

024 = - 1cm

62 A" = - 10 cm.

A 02 A" 02 F2

 $\frac{1}{0xF_2} = \frac{1}{02A''} - \frac{1}{02A'} - \frac{1}{02F_2} = \frac{1}{-10} - \frac{1}{1}$

-0 02F2=1,11cm.

 $106 / | \sqrt{82}| = \frac{|A''B''|}{|A'B''|} - 0 | A'B''| = \frac{|A''B''|}{|82|}$ $82 = \frac{02A''}{02A'}, \quad 82 = -\frac{10}{10} \quad 82 = \frac{10}{10} \quad |A'B''| = \frac{4}{10} = \frac{10}{10}$

1A1B1 /= 0,4 cm

1811 = 1A/B/ -0 1AB/= 1A/B/

-0 /AB1 = 014 AB 1= 0,5 cm

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OPR=-1m -> PYOPE

C'= 1 - 1 01PR - 01PRCO

02R (-100cm)

 $C' = \frac{1}{-9810^{-2}}$ C' = -1,02

MO/ A = 2,5 8 A = 1 - 1 0PR 022

 $\frac{d}{622} = \frac{d}{0PR} - 4 \implies \frac{d}{0PR} = \frac{d}{-1} - 2,5 \implies 0PR$

 $C = \frac{1}{022} - \frac{1}{022} = \frac{1}{022} - \frac{1}{022} = \frac{1}{022} - \frac{1}{022}$

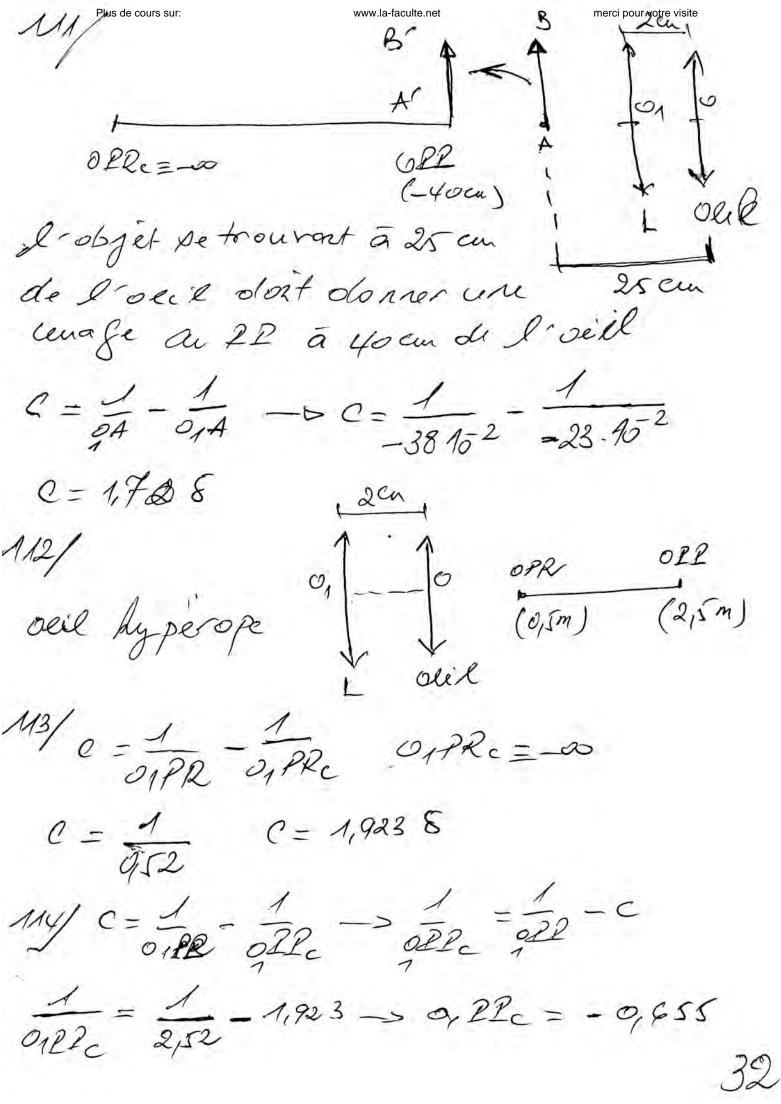
 $\frac{1}{OPlc} = \frac{1}{-0,29} - (-1) \quad 022 = -0,40 \text{ m} \quad d = 40 \text{ cm}$

ona A = 1 - 1 OPR - OPR GPR CE-0

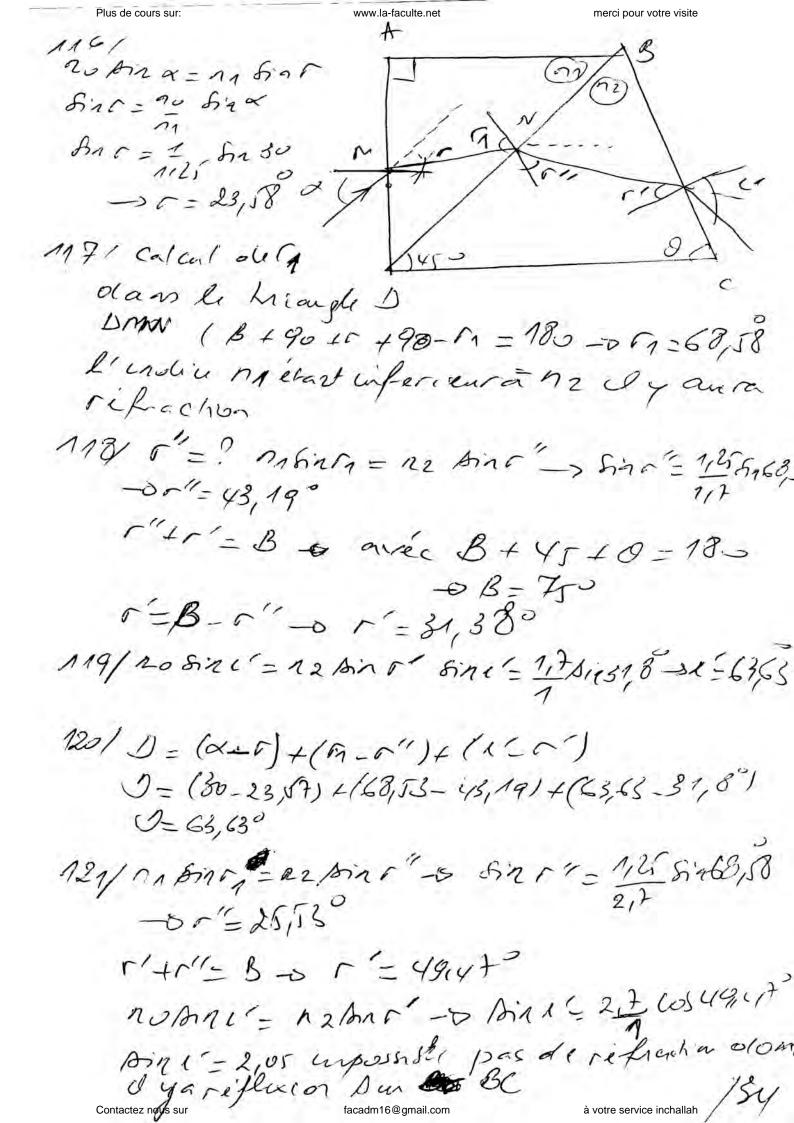
 $-\frac{1}{OPP_c} \longrightarrow OPP_c = -\frac{1}{A} OPP_c = -\frac{1}{2,5}$

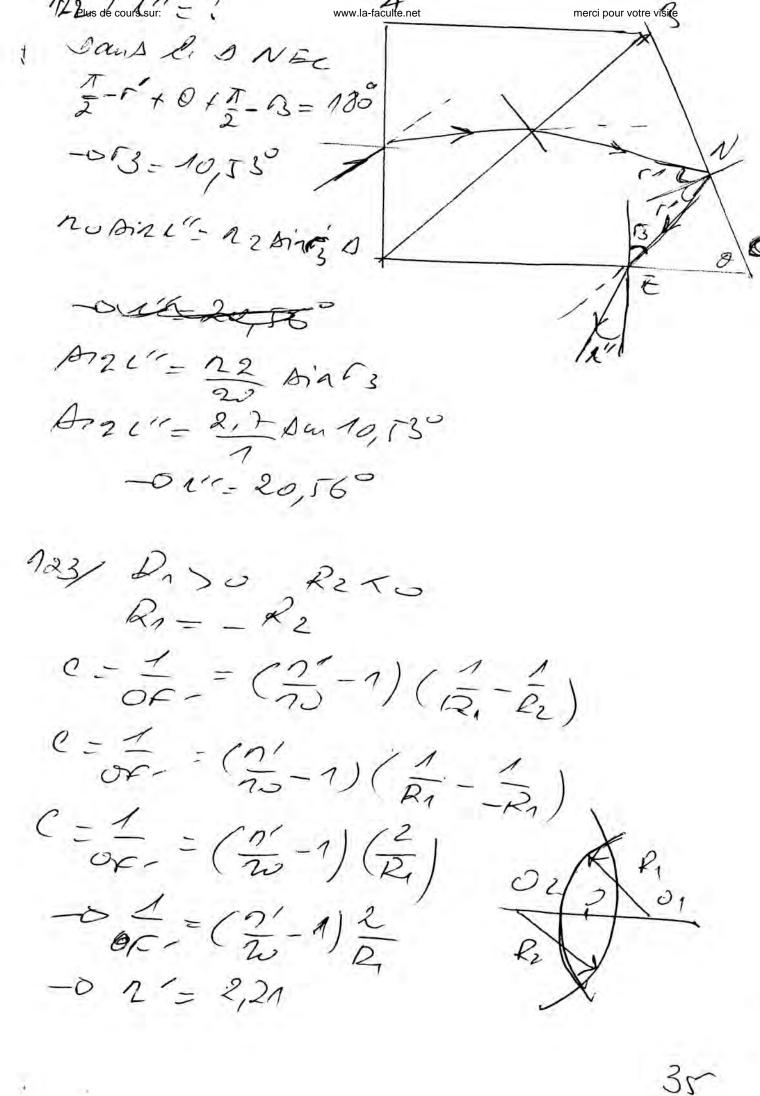
- 07P=-0,4m

-0 06= 40 cm,



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$$C = \frac{1}{022} - \frac{1}{022}$$
 $OZZ_{e} = C + \frac{1}{622}$

$$C = (2-1)(2-2)$$

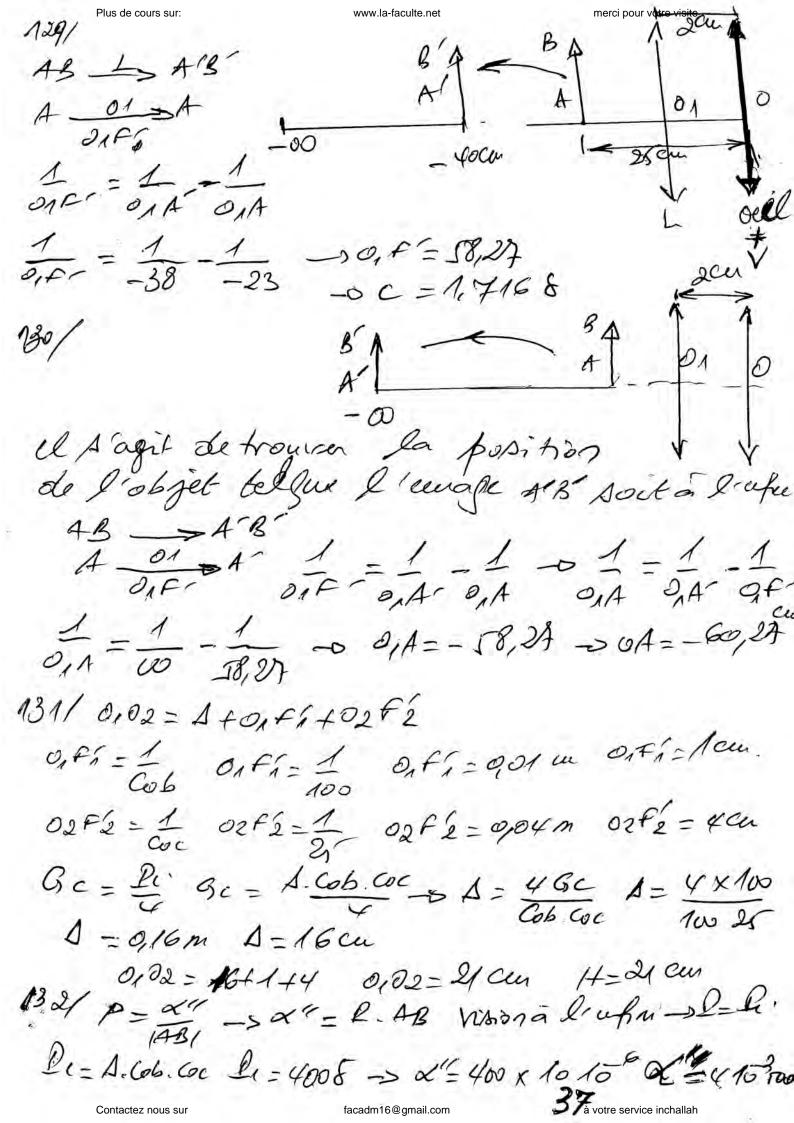
$$\frac{1}{R_1} - \frac{1}{R_2} = \frac{c}{2-1}$$

Cornee.

$$02$$
 R_2
 $R_2 = 10 \text{ mm}$

$$\frac{1}{R_1} = \frac{1}{R_2} + \frac{e}{R_2} - 3 \frac{1}{R_3} = \frac{1}{4015^3} + \frac{-95}{115} - 1$$



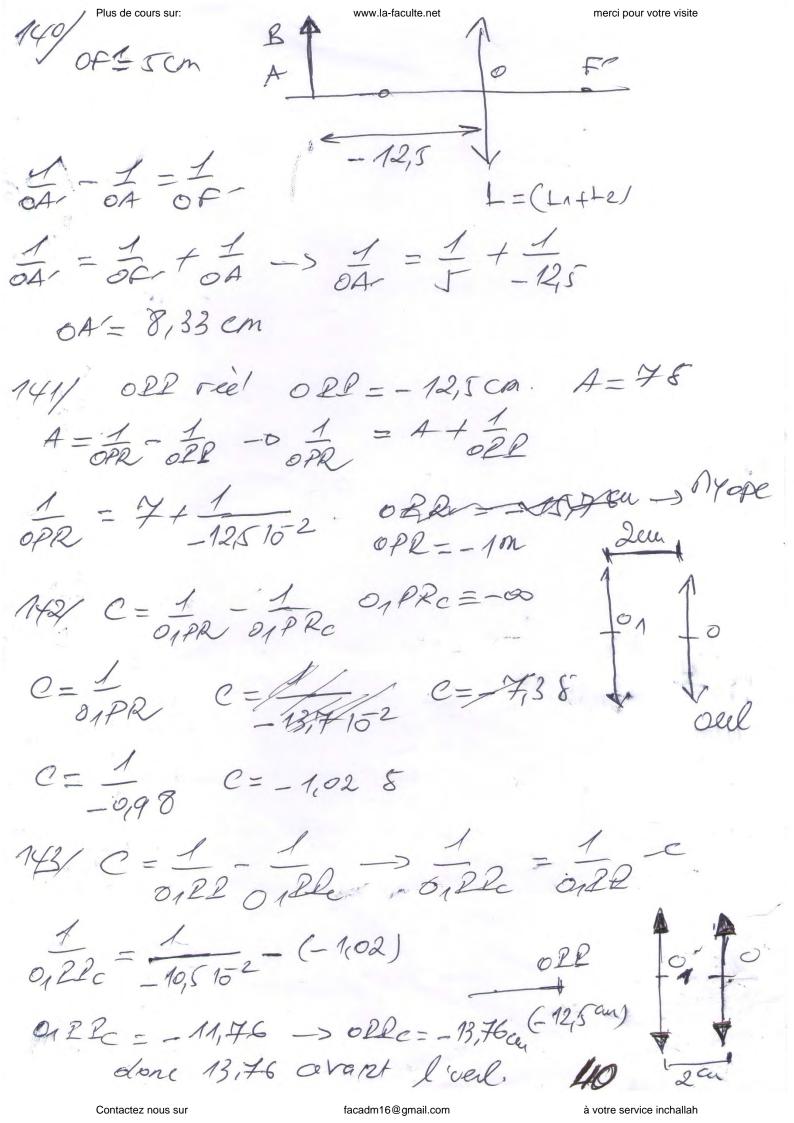


 $\mathcal{R}_1 = 0F' \cdot \left(\frac{2}{n_0} - 1\right)$

R1 = 5 (15-1) -> D1 = 2,5 cm.

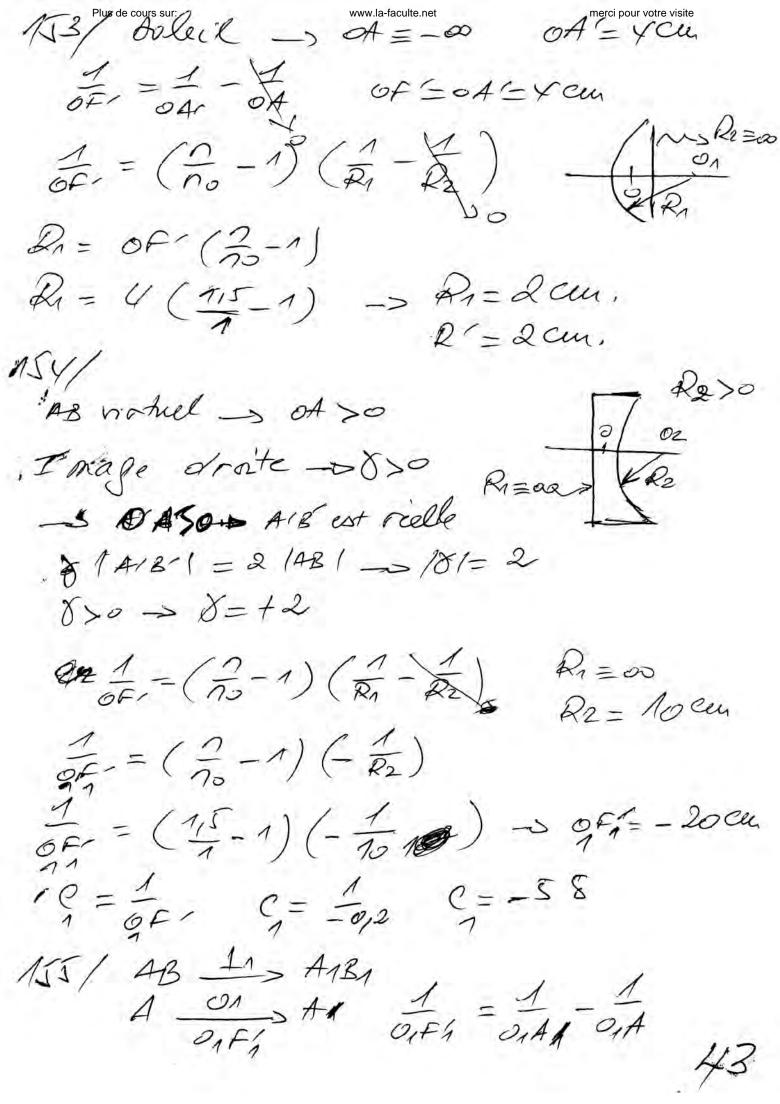
 $C_T = C_1 + C_2$ $C_T = 4 + 16$ $C_T = 20 8$ $OF' = \frac{1}{C_T}$ $OF' = \frac{1}{20}$ OF' = 5 cm.

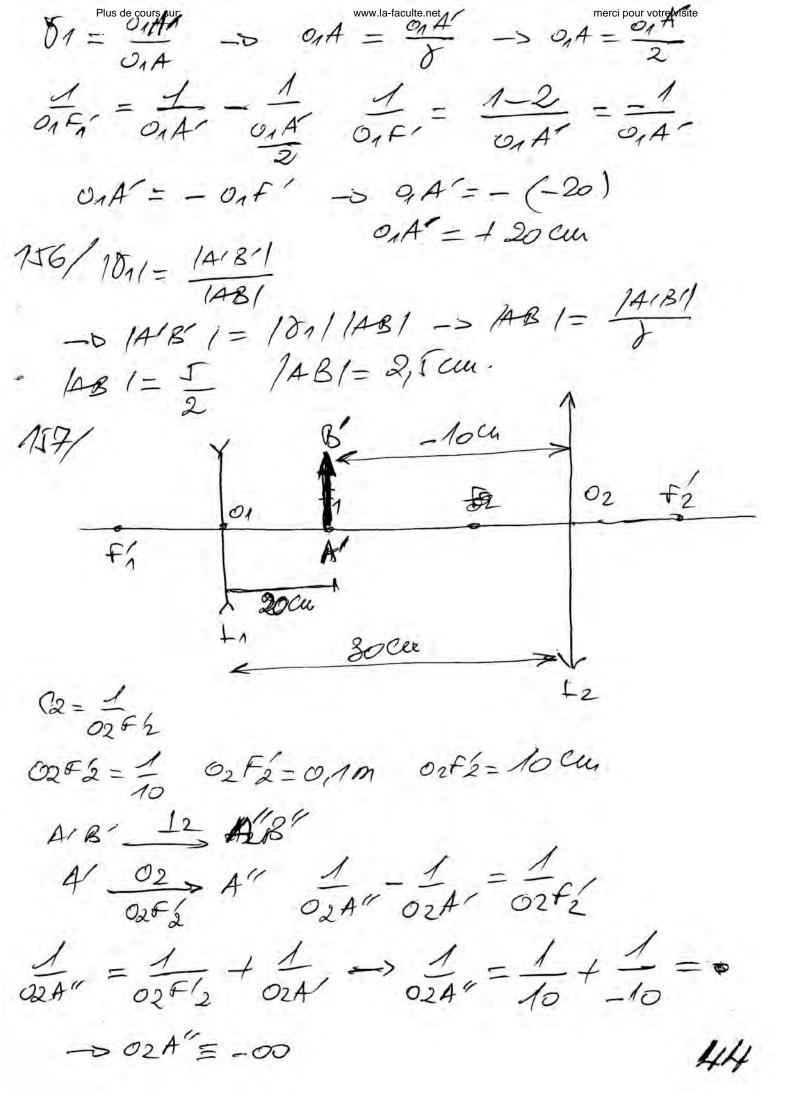
39



Aux Plus de cours sur: C = 1 - 1 CPROPR CPROPRmerci pour votre visite 0 P20 = -90 $C = \frac{1}{0}$ $C = \frac{1}{1}$ C = -18 $C = \frac{1}{022} - \frac{1}{022} = \frac{1}{022} = \frac{1}{022} - \frac{1}{022} = \frac{1}{022} =$ $\frac{1}{022c} = \frac{1}{-12,515^{-2}} - (-1)$ -0 02Pc = -14,29 cm done 14,29 au avart l'oerl. 145/ 072= -00 $A = \underbrace{1}_{ORR} - \underbrace{1}_{O22} \quad O22 = -\frac{1}{A} \quad O22 = -\frac{1}{7}$ Olose 14, 29 eur avort l'oeil 146/ Cmax = 1 - 1 Cmax = 1 - 14,29162 Canax = 65,82 8 -12,5cm L= (0,F1)2 [1 - 1]-1m a=0 (oeil out for) $C = \frac{1}{O_0 F} = \left(\frac{O_0}{O_0} - 1\right) \left(\frac{1}{D_0} - \frac{1}{D_0}\right)$ $\frac{1}{01} = \left(\frac{1}{1} - 1\right) \left(\frac{1}{0102} - \frac{1}{00}\right)$ 0, F1 = 4 cm facadm16@gmail.com Contactez nous sur à votre service inchallah

 $L = (4)^{2} \left[\frac{1}{-100} - \frac{1}{-12,5} \right]$ L= 1,12 cen 1 = 11, 2 mm 148/ 2= e (1 -a) a=0 -> P=C $P = \frac{1}{0, f}, \quad P = \frac{1}{0,04}$ D=25 8 149/ G = 2 x /0221 B = 25 x /125152/ G= 3,125 150/ 01=15 objet reël -0 0A<0 -> 0A=-30 ceu
Image vinhelle -> 0A'<0 -> 0A'=-15 cm C = 7 = 1 - 1 - 1 - 30 OF - 48 - 30 0×=3,384m 0F=-80cu $\mathcal{L} = \frac{1}{362} 10^{-2}$ e=-3,338 151/ Cxo et rayons égans -> to concave 1521 C= (20-1) (21-22) R1 20 02 C=(20-1)(21-22) R1 <0 22<0 C=(20-1)(2)=2-/R11=/R21 $R_1 = 2(\frac{27}{15}-1) \circ F'$ $R_1 = 2(\frac{15}{15}-1) \times (-30) \longrightarrow R_1 = -30 \text{ cm}$ $R_2 = 2(\frac{15}{15}-1) \times (-30) \longrightarrow R_2 = -30 \text{ cm}$





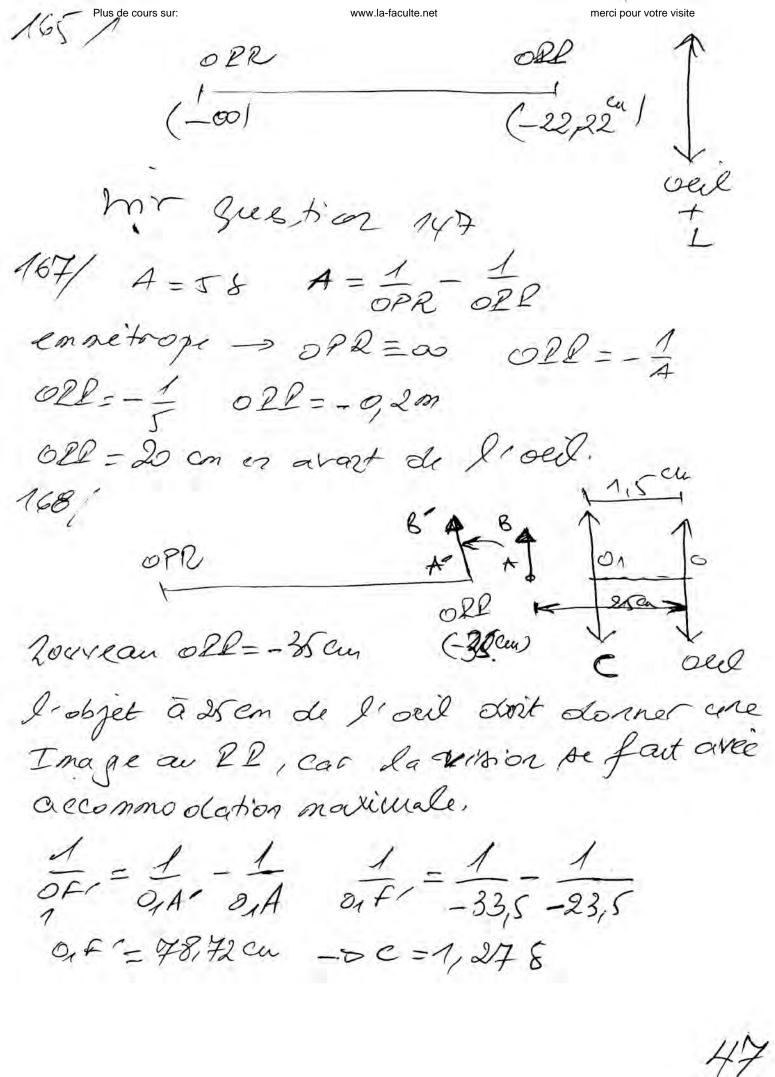
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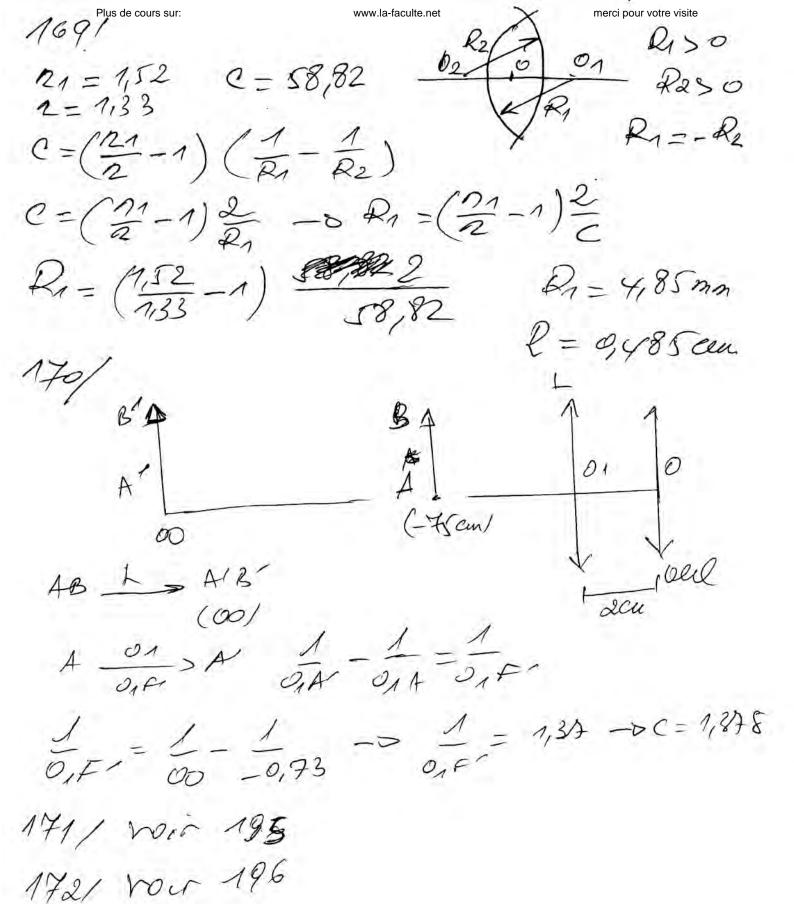
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NS9/ 021 = -0,1 of A = 1 of

45

 $160/C = \frac{1}{6PR} + \frac{1}{6PR} = -\infty$ C= 1 0,V C= 2,58 $C = \frac{1}{022} - \frac{1}{022} \Rightarrow \frac{1}{022} = \frac{1}{022} - C$ $\frac{1}{022c} = \frac{1}{-0.5} - 2.5 \longrightarrow 022c = -0.222$ OPPC=22,22 cm Olone 02Rc est 22,22 cm de J'oeil. 1621 $C = \int_{CF} = \left(\frac{2}{2} - 1\right) \left(\frac{1}{2} - \frac{1}{2}\right) =$ $\frac{1}{21} = \frac{C}{\frac{2}{3}-1} + \frac{1}{2}$ $\frac{1}{24} = \frac{25}{15-1} + \frac{1}{710^{-3}}$ $Q_1 = 6,70$ ma. $Q_2 = 6,70$ ma. $163/A = \frac{1}{OPR} - \frac{1}{OPR} \rightarrow OPR = 00$ (emmetrope) -> 020 = - 1 020 = - 1 020 = - 22,22 eu, -> 22,22 cm de l'oeil 164/ Cnax = 1 - 1 $Cmax = \frac{d}{1710^{-3}} - \frac{1}{-222210^{-2}}$ Cmax = 63,32 §





48

174/ C= 6,25 f > www.la-faculte.net hypered pour vo Il voit l'unage evec accommo detionmax -8 A'B' estan 22 ONF & 16cer ORE AB ____ AB A = 1 = 1 = 01A - 01A 0, A'=1,18,4 cu OA'=1,184m -6 0,22 = 0,A'= 1,184 -5 OZR = 1,184-1,510 OZR = 116, 0,22 = M69 m. [0, 10 -8 1,169 m de l'oeil 1 -> 1,169 m de l'oeil. 176/emmitrope $\rightarrow 0PR = -\infty$ $A = \frac{14}{0PR} - \frac{1}{022}$ $0PP = -\frac{1}{4}$ 02P = -1 62P = -20 Cm

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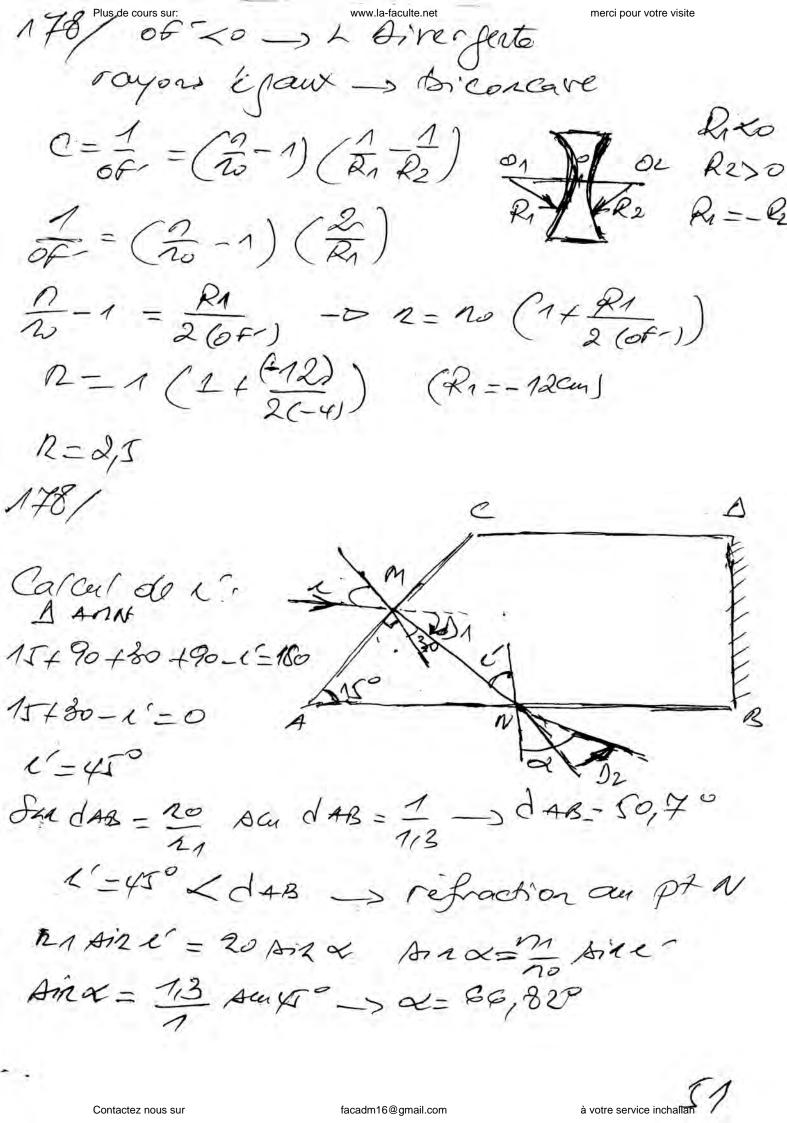
$$G = 6,25 \ |-0,21 \ G = 1,25$$

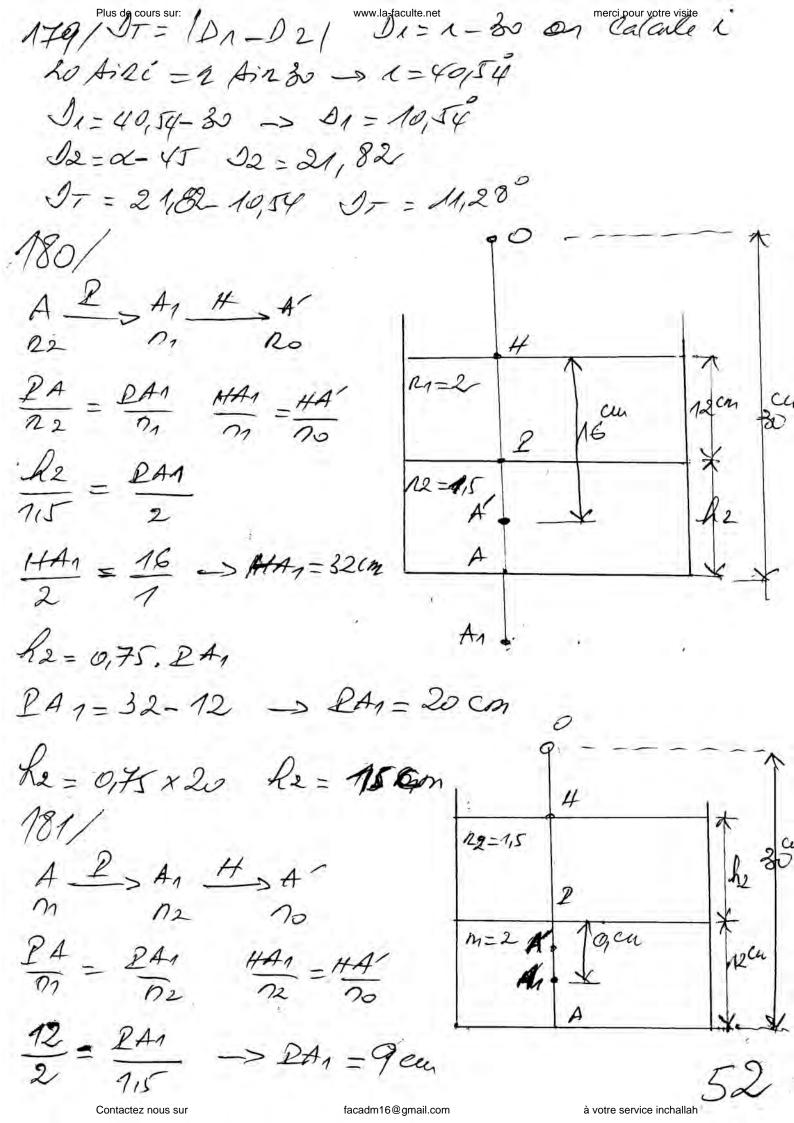
$$\frac{1}{0F} = \frac{1}{0A} - \frac{1}{0A} = \frac{1}{0A} - \frac{1}{0F} = \frac{1}{0A} - \frac{1}{0A} - \frac{1}{0A} - \frac{1}{0A} - \frac{1}{0A} - \frac{1}{0A} = \frac{1}{0A} - \frac{1}{0A}$$

$$\frac{1}{04} = \frac{1}{20} - \frac{1}{4} \implies 0.4 = -5 \text{ cm}$$

$$\frac{1}{\partial A} = \frac{1}{\partial A} - \frac{1}{\partial F} \longrightarrow \frac{1}{\partial A} = \frac{1}{2\omega} - \frac{1}{4}$$

$$8 = \frac{01}{20} \quad 8 = \frac{20}{3,33} = 6$$





 $HA' = HA' = \frac{2}{15}$ Plus de cours sur: $\frac{2}{15}$ $\frac{2}{15}$ 0H = 30-R2 - 12 -0 R2 = 15 cm -0 OH = 3 cm. 04'= 04+44' -> 04'=3+16 04'= 19 cm. 182/ 4=60 Puissue L= L'agit d'une déviation mis 1=1' et 0=0' 4=0+0/ -> 4=20 -> 0= # -0 0= 80 20 Dike = 2 Dine -> Act i = 2 Dine -> bit 1= 62 deu 30 1831 D=146-A -> D=45+45-60 -> D=80° 184/ 01=506 -> 01/1= 1 -> 01/1= 2cm. C2 = 1 C2 = 258 G- C1+C2- a C1C2 f f_n f_n f_2 f_2 f_2 f_3 f_4 f_4 f_5 or a $f_1f = -\frac{(o_1f_1)^2}{\Delta} - s_1f_1 = -\frac{2^2}{2} - s_1f_2 = -2c_1$ ora off = off 1 fat -0 off = (-2-2) $O_{1}F = -4 cm$ 185/
ora $f_{2}^{T}F = \frac{(o_{2}f_{2})^{2}}{1} - 0 f_{2}^{T}F = \frac{(4)^{2}}{2} - F_{2}^{T}F = 8 cm$ 02 F = (02 F2 + F2 F') 02 F = 4 + 8 - 5 02 F = 12 cm is Repa

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A = 25

OPZ = -00 (oel enactopes

-> A = - 1 088 = - 1 088 = - 9,

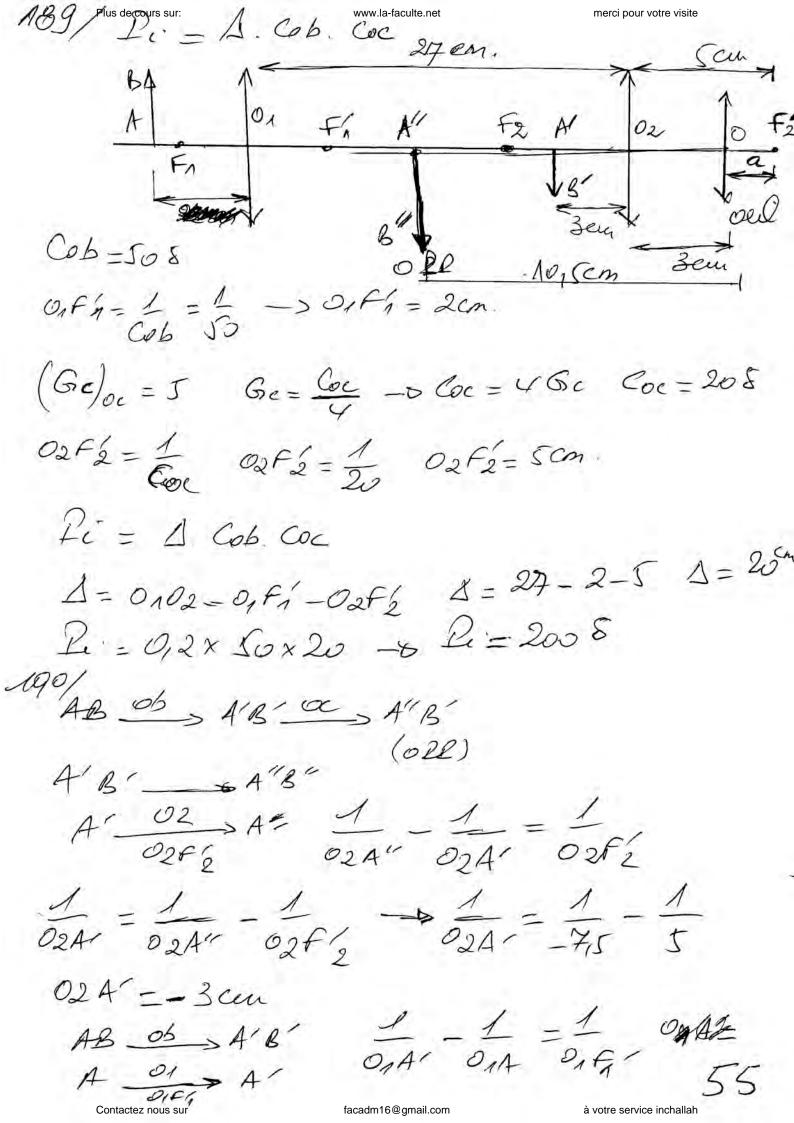
Joan de l'oeil

 $= \frac{1}{2} - \frac{1}{20} \quad \text{Cmov} = \frac{1}{245^3} - \frac{1}{255}$

Conas = 60,825

 $=\frac{1}{-47,5}-\frac{1}{-12,5}$

1 Q = 1-2 16.96 15-2



$$\frac{d}{o_{4}A} = \frac{1}{o_{4}A'} - \frac{1}{o_{4}F'_{1}} - \frac{1}{o_{4}A} = \frac{1}{24} - \frac{1}{2} c_{1}A = \frac{2}{24} - \frac{1}{2} c_{1}A = \frac{2}{24} - \frac{1}{2} c_{1}A = \frac{1}{24} - \frac{1}{24} -$$

$$M_{1}/la$$
 Reispance du sucropo est $O(b)$ nee' $Pa-P=180b/.Poc$

$$80b=\frac{O_1A'}{O_1A}$$

$$80b=-\frac{24}{21818}$$

$$80b=-11$$

$$Poc=Coc \left[1-\frac{2}{\alpha}\right]$$

$$Poc=20 \left[1-\frac{(-2)}{7}\right]$$

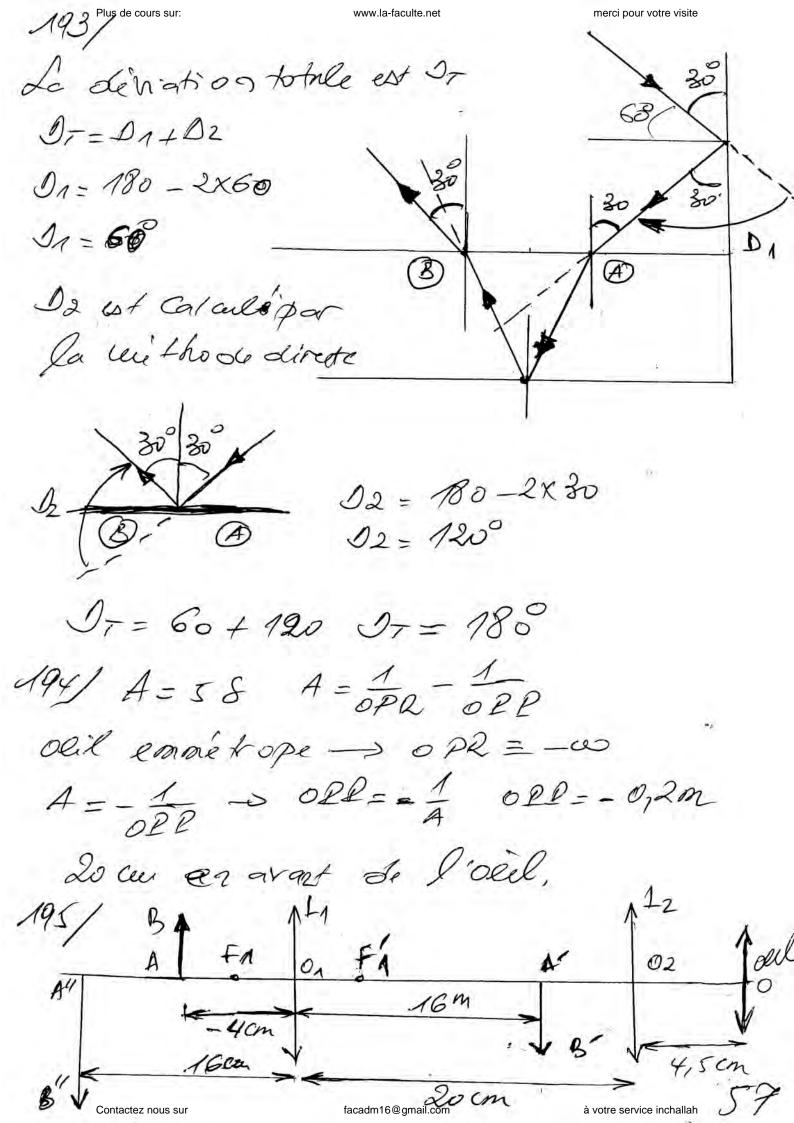
$$Poc=25,818$$

$$P = 1 - 11 / 23,81$$
 $P = 261,95$

192/ le from Memert du microncope
let donne for

$$G = P \times /02P1$$

 $G = 261.9 \times /10.5 \cdot 10^{-21}$



200/ Plus de cours sur: www.la-tacu

OPP = - Soon -> lossbyte

done Ayape + Probyte

201/ C=1-1-5-1=1+C

 $\frac{d}{dPR} = \frac{d}{-0.5} + (-1) = 33.3 cm$

 $202/A = \frac{1}{0PR} - \frac{1}{6PR}$

on Calcul of R C=1-1 OPRO =-00

 $C = \frac{1}{opR} - > op2 = \frac{1}{c} - > op2 = \frac{1}{c} - op2 = -19$

 $A = \frac{1}{-1} - \frac{1}{-0,333}$ A=25

203/

C= 1 = (2-1)(1-1)

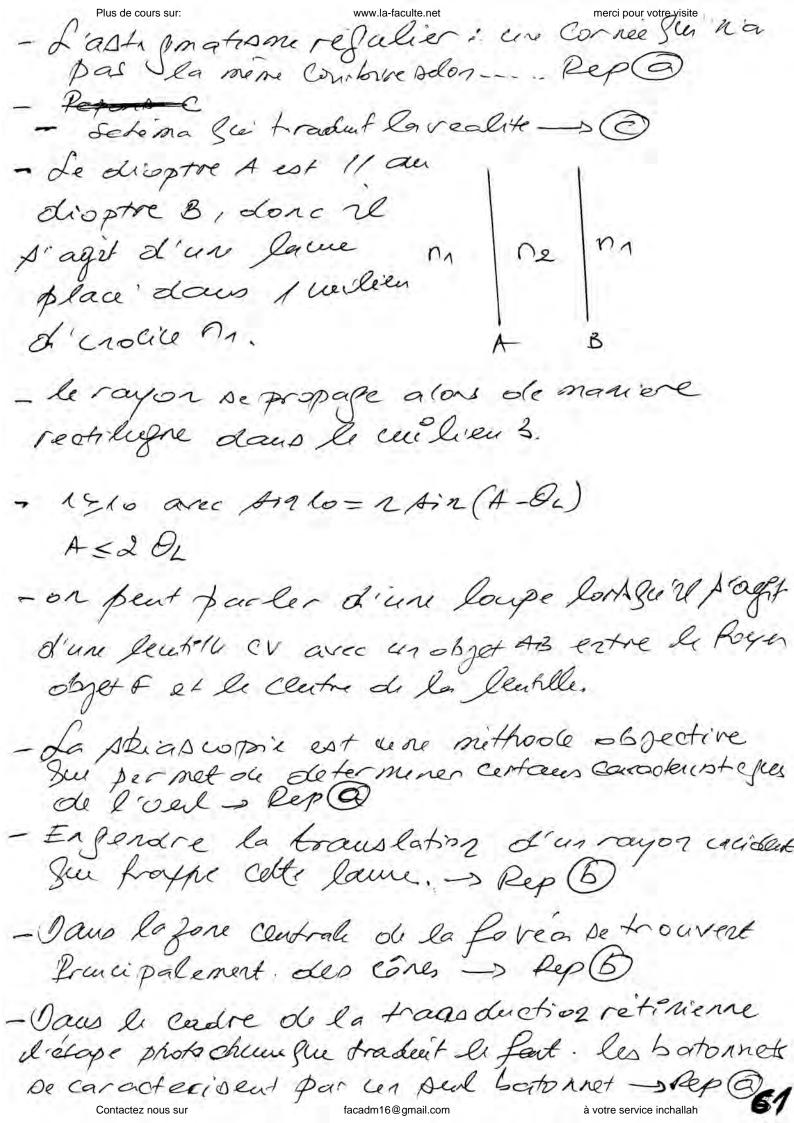
 $\frac{C}{P_1-1} = \frac{1}{R_1} - \frac{1}{R_2}$

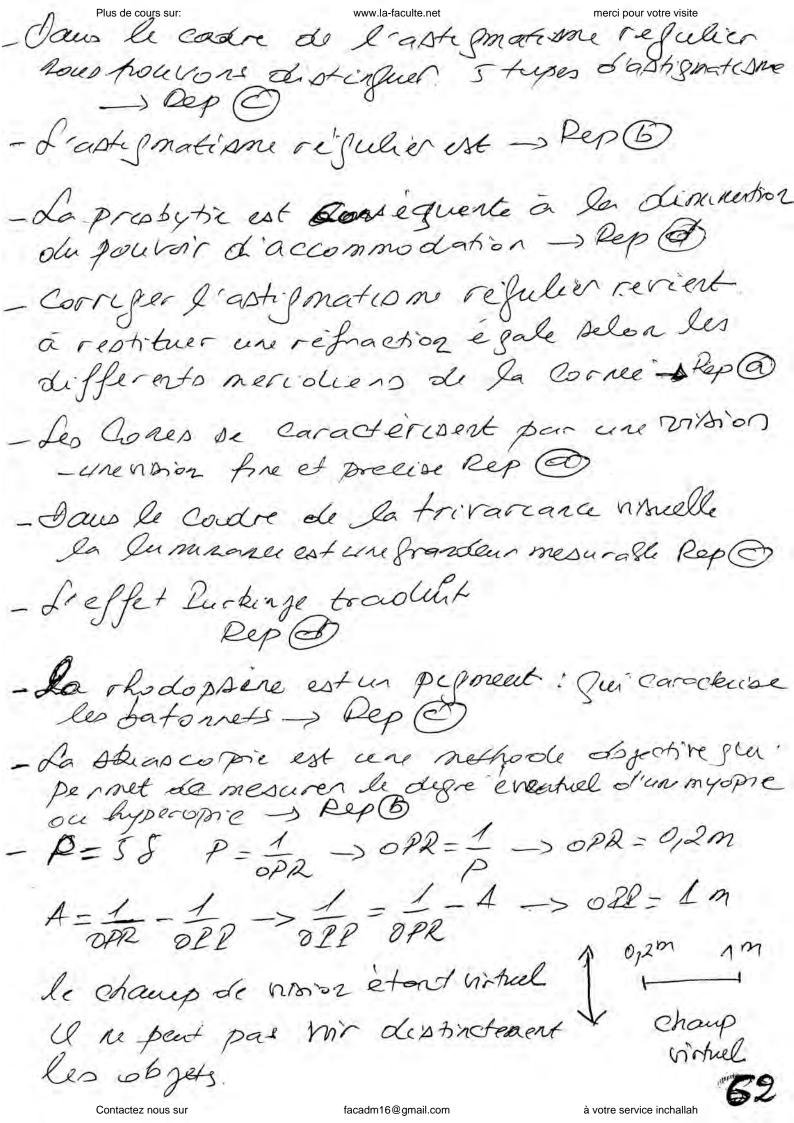
 $\frac{1}{R_0} = \frac{1}{R_2} + \frac{C}{2-1} \qquad \frac{1}{R_0} = \frac{1}{2045^3} + \frac{(-1)}{15-1}$

Pn = 20,8 mm.

204/ AB objet véel IAB/=4cm of'=4cm A'B' véelle -3 04 >0 OA'= 20cm

Duite $\frac{1}{204}$ $\frac{1}{64}$ $\frac{1}{20}$ $\frac{1}{4}$ $\frac{1}$ $\mathcal{S} = \frac{oA}{oA} \quad \mathcal{S} = \frac{2o}{-5} \quad \mathcal{S} = -\mathcal{V} \quad |\mathcal{S}| = \frac{|\mathcal{A} \cdot \mathcal{B}'|}{|\mathcal{A} \cdot \mathcal{B}|}$ 1A181 = 18/ 1AB/ A-B1 = L4/4 /A181 = 16cu 2057 La nusi œu point étant réalibée sans accommodation par en aler nor mal -> A'R'
ust a l'ustrai -> objet son f de la leutille. -s donc AB à -4 cm de L. 206/ P= d/ Ar8' à l'ufrer _ s D= C 1 ASV P = C = 1 -> P = 1 0,04 P = 258 d'= 2. ABI & = 25.0,2153 &= 5103000 Questions de lours - 42 nicroscope est Corstitue de deux levibles (V - Le froom spennt Best use sotion Jeu depende la rature de l'oeil d'observateur. - L'effet Perkerge apparent en vision scotopique - Dans le Coolre de la transdenction rétriconne, l'Asape photscheme fue tradent le fait sue: Rep@ les batonnets se conacteusent pagasfeil Le ment - la to pographie rétinienne aux à expliseen pour sien -> Rep B - Doeus la zone serci phirique & le forca, pe trouvent explessivement - Rep à votre service inchallah





- En hon such pique la Conlei merci pour volrevisite apparait plus la minera sur la Conleir Rape - £ 2 vision d'urne, l'accente vi suelle, de cront de la sové à vers la vetire paiphère que _s repos -Dans le Cordre de la trans de et on rètimenne l'étage photochemelue tradent lefait: chaque conspecaracterise simultanement par 3 pignent & Réc Dans le condre de la Mision Repos - Dans la zone contrale de la force se trouvert exclusivement -> Repa - la Keratometrie est un méthode de jective sur per met de détermine cortaine caract du l'veil spapes - Le minisque DV, devort une leutille ev en changeaux l'ensire de melieu dans le Juel baign la leutele - La trivariance visuelle répose sur les franceurs nesurable et répérable -s © -La Abiasuppie permet de Caracteriper. le degré évertuel d'un hyperopre - une flane adult myoge ne g sera jourais prestyke parces su sor ell est tres proche de l'oel s faux. -Down le care de la brophysique, l'effet Perbeige apparail en vision photopique is tour.